

S Librae

 $15^{\text{h}} 13^{\text{m}} 4^{\text{s}} \quad (1855.0) \quad -19^{\circ} 51'.7$
 $\text{Max.} = 2405692^{\text{d}} \quad (17. \text{ Jun. } 1874) + 192^{\text{d}}.1 \text{ E.}$

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.4	7.3	$-1^{\text{m}}29^{\text{s}}$	$+50'.5$		24	49	11.0		$+0^{\text{m}}37^{\text{s}}$	$+3'.3$	
2	8	8.0	8.3	$+1\ 49$	$+35.6$		25	49	11.1		$-0\ 31$	-4.8	
3	9	8.1	8.1	$-1\ 36$	-28.1		26	52	11.3		$+0\ 41$	$+5.7$	
4	14	8.4	8.9	$+2\ 19$	$+37.8$		27	54	11.4		$-0\ 34$	-9.9	
5	15	8.5	9.0	$-1\ 56$	$+26.4$		28	56	11.6		$+0\ 12$	-6.7	
6	15	8.5	8.6	$+2\ 45$	-27.4		29	56	11.6		$+0\ 53$	$+14.7$	
7	16	8.6	9.2	$+1\ 59$	$+39.1$		30	60	11.9		$+0\ 7$	$+7.0$	
8	20	8.9	9.1	$+1\ 9$	-19.0		31	61	11.9		$+0\ 50$	-5.7	
9	24	9.2	9.3	$+0\ 13$	-15.0		32	62	12.0		$-0\ 5$	-8.4	
10	24	9.2	9.3	$-0\ 19$	-3.6		33	62	12.0		$-0\ 43$	$+7.2$	
11	25	9.3	9.1	$+1\ 4$	-20.2		34	65	12.2		$+0\ 5$	$+2.5$	Sch. 12. 13 ^M
12	26	9.4	9.5	$+1\ 18$	-4.2		35	65	12.2		$+0\ 7$	-7.8	
13	28	9.5	9.2	$+0\ 53$	$+20.1$		36	66	12.3		$-0\ 21$	-0.9	
14	29	9.6	9.5	$+1\ 20$	$+23.1$		37	67	12.4		$+0\ 36$	-1.3	
15	31	9.7	9.8	$0\ 0$	$+29.9$		38	68	12.5		$-0\ 39$	-0.7	
16	31	9.7	9.5	$-0\ 12$	-6.6		39	68	12.5		$-0\ 15$	$+1.9$	
17	31	9.7	9.5	$+0\ 15$	-16.8		40	69	12.5		$-0\ 2$	$+2.2$	Sch. 13 ^M
18	32	9.8	9.4	$-0\ 23$	-22.5		41	71	12.7		$+0\ 14$	-9.3	
19	35	10.0	9.8	$+0\ 31$	$+9.4$		42	72	12.7		$+0\ 52$	-12.7	
20	36	10.1	9.7	$-0\ 56$	-6.9		43	74	12.9		$-0\ 5$	-1.3	
21	37	10.2	9.4	$+2\ 29$	$+32.3$		44	75	13.0		$-0\ 36$	-3.6	
22	44	10.7		$+0\ 40$	$+10.0$		45	82	13.5		$-0\ 37$	-11.1	
23	45	10.8		$+0\ 19$	-10.5								

$$M = 8.9 + 0.074 (G - 19.9).$$

5644

Z Librae

 $15^{\text{h}} 38^{\text{m}} 5^{\text{s}}$ (1855.0) $-20^{\circ} 40'.1$ Max. = 2407 109^d (4. Maii 1878) + 295^d E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.8	7.8	+1 ^m 0 ^s	- 6'.6		16	50	10.5		-0 ^m 55 ^s	- 6'.5	
2	17	8.7	8.8	+0 37	-24.5		17	51	10.5		+0 12	+ 8.9	
3	19	8.8	9.1	+0 24	-12.5		18	52	10.6		-0 46	+ 3.1	
4	25	9.2	9.3	+1 12	-23.6		19	53	10.7		+0 16	+ 1.4	
5	28	9.3	9.3	+0 15	-16.4		20	54	10.7		-0 37	+ 4.3	
6	31	9.5	9.3	-0 10	+ 9.1		21	56	10.8		-0 39	+12.4	
7	32	9.5	9.6	+1 41	+11.3		22	58	10.9		+0 43	+13.9	
8	34	9.6	9.5	-0 41	+23.8		23	60	11.0		-1 0	- 2.9	
9	37	9.8	9.8	-1 33	- 9.5		24	61	11.1		+0 26	+ 6.7	
10	39	9.9		-1 36	- 3.2		25	66	11.3		-0 49	-12.5	
11	40	9.9	9.7	-0 10	- 0.2	*	26	66	11.3		+0 22	+ 5.2	
12	43	10.1	10	+0 39	-13.9		27	68	11.5		+0 29	- 1.8	
13	44	10.1		-0 5	+ 3.2	*	28	71	11.6		+0 8	+ 8.2	Duplex.
14	47	10.3		-0 13	- 1.1								
15	49	10.4		+0 20	+ 1.4								

* 11, Vide notam erroneam in Ch. III.

$$M = 9.3 \pm 0.054 (G - 27.9).$$

4816

V Virginis

 $13^{\text{h}} 20^{\text{m}} 19^{\text{s}}$ (1855.0) — $2^{\circ} 25'.2$ Max. = $2400456^{\text{d}}.5$ (15. Februar 1860) + $250^{\text{d}}.5$ E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.0	8.0	$-1^{\text{m}} 40^{\text{s}}$	$-29'.4$		13	57	11.4		$-1^{\text{m}} 6^{\text{s}}$	$-5'.7$	
2	18	9.1	9.0	$+1 30$	$+12.9$		14	58	11.5		$-0 34$	-0.3	
3	24	9.5	9.5	$+1 44$	$+6.9$		15	59	11.5		$-1 1$	$+0.6$	
4	26	9.6	9.5	$+0 25$	-29.7		16	59	11.5		$+0 46$	-9.6	
5	30	9.8	9.5	$-1 31$	$+26.4$		17	60	11.6		$-0 41$	$+0.9$	
6	32	9.9	9.7	$+0 8$	-16.2		18	69	12.1		$-0 4$	$+12.9$	
7	32	9.9	10	$+1 50$	$+22.2$		19	70	12.2		$-0 20$	$+5.4$	
8	36	10.2	10	$-0 10$	$+24.4$		20	73	12.3		$+0 46$	$+12.3$	
9	40	10.4		$-0 14$	$+24.4$		21	75	12.4		$-0 5$	-6.9	
10	43	10.6		$-0 6$	$+14.4$		W			var.	$-1 46$	-12.3	Vide Seriem IV
11	52	11.1		$+0 57$	$+11.7$								
12	54	11.2		$-0 16$	$+10.2$								

$$M = 9.5 + 0.059 (G - 24.8).$$

5776

X Scorpïi

 $16^{\text{h}} 0^{\text{m}} 2^{\text{s}}$ (1855.0) $-21^{\circ} 8'.3$ Max. = 2 406 364^d (19. Apr. 1876) + 199^d 0 E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.1	8.0	$-1^{\text{m}} 41^{\text{s}}$	$-19'.2$		21	51	11.1		$-0^{\text{m}} 47^{\text{s}}$	$- 0'.6$	
2	2	8.2	8.2	$-0 47$	$+ 7.5$		22	53	11.2		$+0 36$	$+11.4$	
3	13	8.8	9.1	$-1 43$	-22.8		23	55	11.3		$-0 49$	$- 8.7$	
4	13	8.9	8.8	$+0 42$	-24.3		24	57	11.4		$+0 1$	$- 3.0$	
5	15	9.0	9.1	$-1 32$	$+14.4$		25	58	11.4		$+0 56$	$- 7.2$	
6	18	9.1	9.2	$+2 7$	$- 6.9$		26	61	11.6		$+0 20$	$+ 6.0$	
7	23	9.4	9.5	$-1 40$	$+23.1$		27	61	11.6		$-0 38$	$+ 0.3$	
8	23	9.4	9.5	$+1 32$	$- 3.0$		28	63	11.7		$+0 54$	$- 5.7$	
9	26	9.6	9.8	$+1 38$	$+20.4$		29	64	11.8		$+0 1$	$+ 1.8$	
10	28	9.7	9.5	$-0 12$	$- 5.7$		30	67	11.9		$+0 17$	$- 4.2$	
11	30	9.8	9.7	$-1 1$	-24.6		31	67	12.0		$-0 9$	$- 6.6$	
12	32	9.9	10	$+1 8$	$+ 0.3$		32	68	12.0		$-0 19$	$- 1.5$	
13	32	10.0	9.5	$-0 18$	$+ 2.1$		33	71	12.2		$-0 43$	0.0	
14	33	10.0	9.5	$-1 57$	-14.4		34	71	12.2		$+0 26$	$- 5.4$	
15	34	10.1	10	$-0 36$	$+18.1$		35	72	12.2		$-0 25$	$- 3.0$	
16	35	10.1	9.7	$-1 0$	$- 5.4$		36	73	12.3		$+0 3$	$+11.1$	
17	41	10.5		$-0 31$	$+13.2$		37	75	12.4		$-0 23$	$+ 5.4$	
18	44	10.6		$+0 26$	$- 2.4$		38	78	12.6		$+0 18$	$+ 0.3$	
19	45	10.7		$+0 1$	$+ 7.5$		39	79	12.7		$-0 49$	$- 5.7$	
20	50	11.0		$+0 50$	-14.7		Z			var.	$-2 33$	-11.8	

$$M = 9.2 + 0.058 (G - 19.3).$$

5070

Z Virginis

 $14^{\text{h}} 2^{\text{m}} 33^{\text{s}}$ (1855.0) $-12^{\circ} 36'.5$ Max. = 2 407 861^d (25. Maii 1880) + 306^d.5 E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.7	9.0	$-0^{\text{m}} 11^{\text{s}}$	$-2'.4$		26	28	10.2	10	$+0^{\text{m}} 43^{\text{s}}$	$-12'.8$	
2	5	9.0	8.8	$+0 47$	-0.3		27	31	10.3	10	$-0 30$	$+2.8$	
3	7	9.1	9.5	$-0 21$	$+0.1$		28	32	10.3		$-0 39$	$+0.8$	
4	9	9.2	9.4	$-0 29$	$+29.3$		29	33	10.4	10	$+0 28$	$+8.3$	
5	11	9.3	9.5	$-0 20$	$+28.3$		30	35	10.5		$+0 21$	$+6.1$	
6	11	9.3	9.1	$-1 33$	-16.0		31	39	10.7		$-0 42$	-9.5	
7	13	9.4	9.5	$-1 8$	$+8.8$		32	39	10.7		$+0 43$	$+13.6$	
8	14	9.4	9.3	$-1 32$	$+2.6$		33	41	10.8		$+0 56$	-0.8	
9	14	9.4	9.4	$+1 24$	$+22.7$		34	41	10.8		$-0 55$	$+14.2$	
10	15	9.5	10	$+0 5$	$+28.9$		35	44	10.9		$+0 52$	-0.8	
11	15	9.5	9.5	$+0 29$	$+10.3$		36	47	11.1		$-0 42$	$+14.5$	
12	16	9.5	9.7	$-1 26$	$+2.6$		37	47	11.1		$+1 4$	-12.5	
13	17	9.6	9.7	$-0 7$	$+20.5$		38	48	11.1		$+0 2$	-5.1	
14	18	9.6	9.5	$-0 35$	-17.7		39	50	11.2		$-0 41$	$+6.5$	
15	19	9.7	10	$+0 37$	$+26.5$		40	50	11.2		$+0 22$	-0.8	
16	21	9.8	9.5	$+0 5$	$+8.9$		41	50	11.2		$+0 40$	-11.0	
17	21	9.8	10	$-0 50$	-18.5		42	52	11.3		$-0 14$	$+12.7$	
18	22	9.8	9.6	$+0 47$	-23.9		43	53	11.4		$+0 22$	-5.0	
19	24	9.9	10	$+0 27$	$+29.8$		44	55	11.5		$+0 5$	$+10.0$	
20	24	9.9	9.9	$+1 5$	-20.3		45	57	11.6		$+0 22$	-12.5	
21	25	10.0	10	$+0 13$	$+11.5$		46	58	11.6		$-0 41$	-0.2	
22	26	10.0	10	$+1 9$	-22.7								
23	27	10.1	10	$-0 32$	-18.3								
24	28	10.1	10	$-0 7$	$+2.7$								
25	28	10.1	10	$+1 42$	-23.6								

$$M = 9.5 + 0.050 (G - 15.4).$$

4377

T Virginis

 $12^{\text{h}} 7^{\text{m}} 10^{\text{s}}$ (1855.0) $-5^{\circ} 13'.8$ Max. = 2400891^d (26. April 1861) + 339^d 5 E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0		6.9	$-0^{\text{m}} 20^{\text{s}}$	+19'.1	S. 6 ^M .6.	21	62	10.5		$-0^{\text{m}} 8^{\text{s}}$	+ 1'.7	Sch. 11 ^M .
2	4	8.0	8.1	+1 46	+11.3		22	67	10.7		+0 18	- 7.9	
3	6	8.1	8.0	+1 16	- 7.9		23	69	10.8		-0 11	-14.2	
4	11	8.3	8.5	+0 57	+ 5.9		24	70	10.9		+0 15	- 6.4	
5	33	9.2	9.1	-0 48	-28.0		25	73	11.0		+0 13	+ 1.7	Sch. 11. 12 ^M .
6	36	9.4	9.5	+1 40	+22.1		26	76	11.1		-0 51	- 2.8	
7	37	9.4	9.4	+1 51	+20.3		27	77	11.2		+0 24	+15.2	
8	40	9.5	9.5	+0 28	+11.3		28	78	11.2		+0 48	- 6.7	
9	43	9.7	9.5	+1 12	-22.0		29	78	11.2		-0 57	+ 2.6	
10	43	9.7	9.5	+1 39	- 9.4		30	79	11.3		+0 2	+ 1.8	Sch. 12 ^M .
11	43	9.7	9.5	-1 2	+26.6		31	80	11.3		-0 3	+ 4.4	Sch. 11. 12 ^M .
12	45	9.8	9.5	-1 7	+29.9		32	81	11.3		-0 51	- 0.1	
13	46	9.8	9.8	+1 15	-19.6		33	82	11.4		+0 12	-14.5	
14	47	9.8	10	+1 4	+ 2.0		34	84	11.5		-0 42	+11.6	
15	47	9.9	9.5	-0 50	-14.5		35	86	11.6		-0 51	+ 2.9	
16	49	9.9	9.5	-1 41	+29.3		36	92	11.8		-0 33	+ 0.2	
17	50	10.0	10	-0 23	-27.4								
18	54	10.2		+0 47	-14.2								
19	56	10.2		+0 39	+ 2.9								
20	58	10.3		+0 25	+ 8.6								

$$M = 9.0 + 0.044 (G - 27.3).$$

5761

Z Scorp

 $15^{\text{h}} 57^{\text{m}} 29^{\text{s}}$ (1855.0) $-21^{\circ} 20'.1$ Max. = 2 405 292^d (13. Maii 1873) + 370^d E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.0	7.5	$-0^{\text{m}} 17^{\text{s}}$	$-6'.3$		21	61	10.5		$0^{\text{m}} 0'$	$+11'.1$	
2	1	8.1	8.0	$+0 50$	-7.9		22	65	10.7		$+0 37$	$+15.0$	
3	4	8.2	8.2	$+1 45$	$+19.0$		23	70	10.9		$-0 4$	-1.2	Duplex.
4	9	8.4	8.7	$-1 56$	-11.1		24	72	11.0		$-0 47$	$+8.4$	
5	12	8.5	8.8	$+1 16$	-19.8		25	74	11.1		$-0 32$	-8.4	
6	19	8.8	8.8	$-1 24$	$+23.4$		26	77	11.2		$-0 7$	$+6.1$	
7	20	8.8	9.1	$+0 48$	-11.2		27	78	11.2		$+0 26$	$+3.6$	
8	23	9.0	9.1	$+1 0$	$+26.1$		28	79	11.3		$-0 3$	-10.2	
9	24	9.0	9.1	$+0 30$	$+29.3$		29	80	11.3		$+0 1$	-7.5	
10	24	9.0	9.0	$+0 9$	$+9.7$		30	81	11.3		$+0 45$	$+13.2$	
11	30	9.3	9.3	$+0 35$	-25.5		31	83	11.4		$+0 41$	$+5.7$	
12	33	9.4	9.3	$-0 50$	-17.8		32	83	11.4		$-0 36$	-11.8	
13	36	9.5	9.6	$-0 52$	-0.6		33	85	11.5		$+0 22$	-7.8	
14	42	9.7	9.6	$-1 51$	-4.2		34	86	11.6		$+0 32$	$+11.4$	
15	44	9.8	9.7	$+1 31$	-13.3		35	87	11.6		$-0 55$	-9.9	
16	44	9.9	9.5	$+0 35$	-2.8		36	88	11.7		$0 0$	$+6.6$	
17	48	10.0		$-0 16$	-13.8		37	94	11.9		$-0 50$	$+6.3$	
18	52	10.1	9.7	$+1 32$	$+6.6$		X			var.	$+2 33$	$+11.8$	
19	58	10.4		$-0 15$	$+1.3$								
20	59	10.5		$-0 21$	$+9.9$								

$$M = 9.0 + 0.041 (G - 23.7).$$

5583

X Librae

 $15^{\text{h}} 27^{\text{m}} 50^{\text{s}}$ (1855.0) $-20^{\circ} 40'.8$ Max. = 2407183^{d} (17. Jul. 1878) + $163^{\text{d}}.6$ E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1			5.8	$+2^{\text{m}} 3^{\text{s}}$	$+ 8'.3$	S. $6^{\text{M}}.5$.	23	42	10.3		$+0^{\text{m}} 34^{\text{s}}$	$+ 3'.9$	
2	0	8.4	8.4	$-1 1$	$+ 9.0$		24	50	10.7		$-0 29$	$+ 7.8$	
3	5	8.6	8.8	$+1 59$	-12.9		25	51	10.8		$+0 4$	$+11.5$	
4	6	8.7	8.8	$+1 5$	-16.0		26	54	10.9		$+0 33$	$+12.6$	
5	11	8.9	9.0	$-1 13$	$+ 5.8$		27	55	10.9		$+0 24$	$- 1.3$	
6	14	9.0	8.8	$+0 57$	$- 6.7$		28	57	11.0		$+0 12$	$+12.0$	
7	17	9.2	9.0	$-0 6$	$+26.8$		29	57	11.1		$-0 39$	$+15.4$	
8	21	9.4	9.6	$-0 37$	$- 6.0$		30	58	11.1		$+1 2$	$+10.0$	
9	25	9.6	9.5	$+1 23$	$+ 5.5$		31	60	11.2		$+0 59$	$- 6.3$	
10	26	9.6	9.9	$-0 23$	$- 6.7$		32	61	11.2		$-0 47$	$+12.4$	
11	27	9.6	9.8	$-0 21$	$+ 8.4$		33	61	11.3		$+0 13$	$+ 9.0$	
12	27	9.6	9.4	$+1 30$	-14.7		34	62	11.3		$+1 2$	$- 3.9$	
13	30	9.8	9.8	$+1 47$	$+19.4$		35	63	11.3		$-0 31$	$+ 4.0$	
14	30	9.8	9.9	$-0 35$	-11.2		36	65	11.4		$-0 14$	$+15.6$	
15	32	9.9	10	$-0 57$	-11.8		37	65	11.4		$-0 5$	-10.8	
16	33	9.9	9.5	$-1 51$	$+12.9$		38	69	11.6		$+0 33$	$- 9.3$	
17	34	10.0	10	$-0 21$	$+ 4.9$		39	69	11.6		$+0 55$	$+12.6$	
18	36	10.0	9.9	$-0 17$	-11.1		40	71	11.7		$+0 12$	$- 0.9$	
19	36	10.1	9.8	$+0 14$	$+ 2.8$		41	72	11.7		$+0 27$	$- 6.9$	
20	37	10.1	10	$-1 51$	$+14.7$		42	73	11.8		$-0 18$	$+14.1$	
21	39	10.2		$+0 37$	$- 2.4$		43	73	11.8		$-0 8$	$- 6.0$	
22	40	10.3	10	$+0 29$	$+15.8$		44	74	11.9		$-0 4$	$+ 5.4$	

$$M = 9.0 + 0.047 (G - 13.4).$$

5593

W Librae

 $15^{\text{h}} 29^{\text{m}} 40^{\text{s}}$ (1855.0) $-15^{\circ} 41'.5$ Max. = 2407132^{d} (27. Maii 1878) + 206^{d} E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.5	8.5	$-1^{\text{m}} 51^{\text{s}}$	$+12'.3$		21	49	10.3		$+1^{\text{m}} 3^{\text{s}}$	$+10'.5$	
2	9	8.8	9.1	$-0 18$	$+26.7$		22	52	10.4		$+0 47$	$+ 4.2$	
3	17	9.1	9.2	$-0 3$	$+27.6$		23	54	10.5		$-0 43$	$+ 3.6$	
4	18	9.2	9.2	$+1 28$	-26.0		24	54	10.5		$+1 0$	$+ 9.9$	
5	21	9.3	9.2	$+0 41$	-22.8		25	56	10.6		$+0 11$	$+ 6.6$	
6	22	9.3	9.4	$+1 19$	$+ 2.1$		26	57	10.6		$+0 51$	$- 2.4$	
7	25	9.5	9.5	$+1 13$	$+12.9$		27	59	10.7		$+0 19$	$+ 3.0$	
8	26	9.5	9.5	$+0 10$	$+23.4$		28	59	10.7		$-0 32$	$+ 7.8$	
9	26	9.5	9.4	$+0 20$	-22.5		29	61	10.8		$+1 0$	$- 4.2$	
10	29	9.6	9.8	$-0 18$	$+ 3.9$		30	63	10.8		$+0 5$	$- 4.8$	
11	29	9.6		$-0 21$	-17.4		31	63	10.8		$-0 4$	$+10.5$	
12	31	9.7	9.6	$+0 48$	-19.8		32	63	10.8		$+0 48$	$+ 7.5$	
13	32	9.7	9.6	$+1 0$	$+14.7$		33	66	11.0		$-0 10$	-10.6	
14	36	9.8	9.5	$-1 54$	-29.3		34	67	11.0		$-0 15$	$+11.7$	
15	36	9.8		$-1 2$	$- 1.8$		35	69	11.1		$-0 6$	-10.8	
16	36	9.8		$+1 1$	$- 2.7$		36	69	11.1		$-0 9$	$+13.5$	
17	39	9.9		$-0 46$	$+ 4.5$		37	71	11.1		$+0 14$	0.0	
18	42	10.1		$-0 59$	$+ 6.3$		38	71	11.1		$-0 10$	$- 7.2$	
19	42	10.1		$+0 42$	$+ 9.6$		39	77	11.3		$+0 11$	$- 2.1$	
20	49	10.3		$-0 9$	$- 8.8$		40	81	11.5		$-0 4$	0.0	

$$M = 9.3 + 0.037 (G - 20.9).$$

5037

RR Virginis

 $13^{\text{h}} 57^{\text{m}} 12^{\text{s}}$ (1855.0) $-8^{\circ} 30'.0$

Max. = 2407483 (13. Maii 1879) + 217 E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0		5.0	+1 ^m 50 ^s	-7'.2	S. 6 ^M .1; 95 Virg.	18	72	10.8		-0 ^m 25 ^s	+11'.7	
2	7		6.8	+1 25	+18.0	S. 6.7; 94 Virg.	19	74	10.9		+0 26	+10.5	
3	10		6.5	-0 32	-3.6	S. 6.7.	20	74	10.9		+0 4	-6.9	
4	25	7.7	8.0	+0 18	+8.7		21	77	11.1		+0 2	+14.1	
5	30	8.0	8.0	-0 34	-19.8		22	80	11.3		-0 48	+10.2	
6	36	8.4	8.5	-1 53	-18.6		23	82	11.4		+0 34	-10.2	
7	42	8.8	9.2	-0 13	+26.7		24	84	11.6		+0 20	+2.1	
8	46	9.0	8.8	-0 5	-24.0		25	87	11.7		+0 6	-9.3	
9	50	9.3	9.4	-1 6	+10.5		26	90	11.9		-0 6	-2.1	
10	54	9.5	9.5	+0 47	-1.8		27	90	12.0		-0 9	+11.7	
11	57	9.8	10	-1 58	-2.7		28	92	12.0		-0 22	+2.4	
12	59	9.9	9.8	+1 53	-3.9		29	93	12.1		-0 22	-3.3	
13	60	10.0	9.5	-0 47	+8.4		30	96	12.3		-0 17	-3.3	
14	63	10.2	9.9	+0 59	-7.6		31	97	12.4		-0 15	-9.6	
15	68	10.5		+0 28	+2.4		32	97	12.4		-0 8	-6.6	
16	68	10.5		+0 28	+13.8		33	100	12.6		+0 18	+1.5	
17	72	10.7		-0 3	-15.9								

$$M = 8.4 + 0.065 (G - 36.0).$$

4492

Y Virginis

 $12^h 26^m 25^s$ (1855.0) $-3^{\circ} 37.3$ Max. = 2408 880^d (10. Mart. 1883) + 218^d 8 E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.2	8.0	+0 ^m 18'	- 1'.4		13	41	10.8		+0 ^m 40'	+14'.0	
2	5	8.5	8.5	-1 39	+16.2		14	44	10.9		+0 58	+17.2	
3	8	8.7	8.7	+1 29	+21.6		15	47	11.1		+0 58	-13.7	
4	16	9.2	9.2	+0 59	- 0.1		16	47	11.1		-0 51	+16.9	
5	19	9.4	9.3	+0 57	-26.6		17	50	11.3		+0 17	-14.0	
6	20	9.5	9.4	-0 35	+ 6.0		18	53	11.5		+0 6	+ 2.3	Ch. II ^M
7	24	9.7	9.7	+1 49	+ 2.7		19	59	11.9		-1 1	- 9.2	
8	27	9.9		+0 32	- 0.8		20	63	12.1		+0 8	- 7.1	
9	29	10.0	10	+1 48	+22.7		21	69	12.6		-0 6	-14.0	
10	31	10.2	10	-1 11	+23.6								
11	34	10.3		-0 31	-10.4								
12	38	10.5		-0 17	- 7.7								

* 21 non invenitur in Charta Paris. 38 vel Clinton. 16.

$$M = 9.0 + 0.063 (G - 13.0).$$

5795

W Scorpü

 $16^{\text{h}} 3^{\text{m}} 18^{\text{s}}$ (1855.0) $-19^{\circ} 45'.3$ Max. = $2\ 406\ 401^{\text{d}}$ (26. Maii 1876) + $222^{\text{d}}.3$ E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.3	8.3	$-2^{\text{m}} 11^{\text{s}}$	$-28'.4$		21	88	11.4		$+0^{\text{m}} 4^{\text{s}}$	$-9'.9$	Duplex.
2	8	8.6	8.9	$-0\ 49$	-15.6		22	89	11.5		$-0\ 46$	-10.8	
3	11	8.7	8.7	$-0\ 51$	$+8.1$		23	89	11.5		$+0\ 39$	$+10.2$	
4	34	9.5	9.5	$-1\ 28$	$+12.9$		24	91	11.5		$+0\ 42$	$+12.9$	
5	39	9.7	10	$-0\ 32$	$+4.2$		25	93	11.6		$+0\ 17$	-13.2	
6	42	9.8	9.8	$+0\ 11$	-2.4		26	94	11.6		$+0\ 48$	$+5.7$	
7	45	9.9	9.7	$-0\ 7$	$+0.9$		27	96	11.7		$+0\ 46$	$+11.1$	
8	48	10.0	9.5	$-1\ 36$	-26.6		28	96	11.7		$+0\ 23$	-2.7	
9	52	10.2	9.6	$-1\ 10$	-15.9		29	99	11.8		$+0\ 40$	$+10.2$	
10	57	10.3		$+0\ 58$	-14.1		30	102	11.9		$-0\ 36$	$+0.3$	
11	63	10.5		$-0\ 9$	-7.5		31	103	11.9		$+0\ 55$	$+7.8$	
12	67	10.7		$-0\ 36$	$+7.2$		32	103	12.0		$+0\ 52$	$+6.0$	
13	68	10.7		$+0\ 29$	$+13.8$		33	103	12.0		$+0\ 54$	-0.9	
14	72	10.9		$-1\ 2$	-7.5		34	104	12.0		$0\ 0$	$+8.7$	
15	75	11.0		$+0\ 16$	$+5.4$		35	107	12.1		$-0\ 27$	-0.2	
16	78	11.1		$-0\ 42$	-4.8		36	107	12.1		$+0\ 55$	-0.3	
17	79	11.1		$+0\ 17$	-10.8		37	110	12.2		$+0\ 38$	-11.4	
18	81	11.2		$-0\ 27$	$+8.4$		38	113	12.3		$+0\ 9$	$+3.0$	
19	85	11.3		$+0\ 46$	$+1.2$								
20	85	11.3		$-1\ 2$	-12.3								

$$M = 9.2 + 0.035 (G - 25.3).$$

7907

U Aquarii

 $21^{\text{h}} 55^{\text{m}} 24^{\text{s}}$ (1855.0) $-17^{\circ} 19'.5$ Max. = 2406105^{d} (4. Aug. 1875) + 258^{d} E?

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1			6.8	$-0^{\text{m}} 54^{\text{s}}$	$-20'.4$	Dupl. Fl. 29.*	16	32	10.5		$-0^{\text{m}} 11^{\text{s}}$	$+12'.6$	
2	0	8.1	8.0	$+0 53$	$+27.7$		17	36	10.8		$-0 31$	$- 3.0$	
3	4	8.4	8.5	$-1 30$	$- 8.9$		18	36	10.9		$-0 50$	$+ 5.1$	
4	7	8.7	8.8	$-0 51$	$+26.6$		19	40	11.2		$-0 1$	$- 2.1$	
5	10	8.9	9.0	$+0 2$	$+27.2$		20	43	11.4		$-0 48$	$+ 0.2$	
6	12	9.1	9.1	$-2 3$	$+24.8$		21	47	11.7		$-0 33$	$- 6.6$	
7	14	9.2	9.1	$-0 34$	$+11.8$		22	47	11.7		$-0 29$	$+ 4.9$	
8	15	9.3	9.2	$+0 11$	-27.1		23	48	11.8		$+0 48$	$-0 3$	
9	18	9.5	9.5	$+0 13$	-16.9		24	49	11.9		$-0 53$	$- 4.0$	
10	18	9.5	9.3	$+0 15$	$+ 9.9$		25	56	12.4		$+0 15$	$- 6.2$	
11	20	9.7	9.9	$+1 4$	-14.4		26	61	12.8		$+0 14$	$- 0.6$	
12	22	9.8	9.9	$+1 7$	-10.8		27	66	13.2		$+0 26$	$+ 1.9$	
13	24	9.9	9.8	$-1 57$	$+23.1$								
14	24	10.0	9.8	$+1 43$	-13.0								
15	25	10.1	10	$+0 25$	$- 6.4$								

* Σ^{I} 2654 c. g., U. A. $7\frac{1}{4}^{\text{M}}$, 7^{M} in ordine A. R.

$$M = 9.0 + 0.077 (G - 24.2).$$

5830 et 5831

R & S Scorpii

 $16^h 9^m 2^s$ (1855.0) $-22^\circ 33.5$ R Max. = $2401590^d.5$ (25. Mart. 1863) + $224^d.5$ E (Inaequalitas periodica),S Max. = $2392162^d.4$ (1. Jun. 1837) + $176^d.7$ E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.9	7.3	+0 ^m 48 ^s	-21'.6	CD. 7 ^M ₃	26	26	10.8		+0 ^m 30 ^s	- 1'.6	CD. 10 ^M
2	6	8.2	8.6	-1 21	-14.1	" 8.8	27	68	11.0		+0 41	+ 8.1	
3	10	8.3	8.0	-0 25	- 0.3	" 8.3	28	69	11.1		-0 32	-13.5	
4	12	8.4	8.5	-0 47	-11.2	" 8.5	29	69	11.1		+0 53	- 1.5	" 10
5	16	8.6	9.0	+0 3	+25.5	" 9.0	30	69	11.1		-0 48	+ 8.1	" 10
6	17	8.7	8.8	-0 14	-25.3	" 8.7	31	72	11.2		-0 23	-10.2	
7	21	8.8	8.9	+1 12	+ 9.6	" 9.1	32	73	11.2		+0 14	+ 8.7	" 10
8	23	8.9	8.7	-1 57	+ 7.2	" 8.7	33	73	11.2		+0 43	-12.3	
9	23	8.9	9.1	-1 21	-11.7	" 9.3	34	75	11.3		+0 34	-13.6	
10	26	9.1	9.2	+1 59	+28.7	" 9.1	35	76	11.4		-0 14	+ 6.3	
11	28	9.2	9.1	-1 41	-13.8	" 9.3	36	77	11.4		+0 25	-14.7	
12	29	9.2	9.2	+0 30	+13.0	" 9.2	37	78	11.5		+0 25	- 3.9	
13	29	9.2	9.2	+0 39	-21.9	" 9.5	38	79	11.5		+0 49	+ 3.3	
14	30	9.3	9.2	+0 37	-13.4	" 9.1	39	80	11.6		-0 10	-11.4	
15	33	9.4	9.2	+0 10	+ 1.3	" 9.3*	40	81	11.6		+0 10	+ 4.9	
16	34	9.5		+0 23	-28.8	" 9.5	41	84	11.8		-0 48	+ 3.6	
17	36	9.6	9.2	-0 9	- 8.4	" 9.4	42	84	11.8		+0 39	- 8.7	
18	39	9.7	9.3	-0 12	-16.8	" 9.5	43	85	11.8		+0 15	+10.2	
19	40	9.7		-1 10	-30.2	" 9.5	44	89	12.0		-0 38	+ 8.0	
20	41	9.8	9.7	+1 15	+ 2.4	" 9.6	T			Nova	-0 37	- 3.2	Cumulus**.
21	41	9.8		+2 1	-27.8	" 9.5	R			var.	-0 1	- 1.5	
22	43	9.9	9.8	+0 3	+20.1	" 9.9	S			var.	+0 1	+ 1.5	
23	45	10.0	9.8	-0 41	+ 5.7	" 9.7							
24	58	10.6		+0 56	- 9.0	" 10							
25	61	10.7		-0 55	-14.7	" 9.7							

* 15, CGC. 22 071 dpl.

** Cumulus: Messier 80, N. G. C. 6093. Nova (1860) + 0^s 29, + 2^s 7 a centro (Sch. II, 84).

$$M = 8.8 + 0.046 (G - 19.6).$$

6132

R Ophiuchi

 $16^{\text{h}} 59^{\text{m}} 27^{\text{s}}$ (1855.0) $-15^{\circ} 53'.7$ Max. = 2399507^{d} (11. Jul. 1857) + $302^{\text{d}}.7$ E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1			2	$+2^{\text{m}} 37^{\text{s}}$	$+21'.7$	S. $2^{\text{M}}.5$; η Oph.	24	49	10.7		$-0^{\text{m}} 24^{\text{s}}$	$-5'.7$	Ch. $10^{\text{M}}.5$.
2	0	8.0	8.0	$+2 26$	-4.5		25	52	10.9		$-0 50$	-15.0	
3	3	8.2	8.0	$+2 4$	-12.9		26	52	10.9		$+0 6$	-4.5	
4	10	8.5	8.9	$-0 52$	-20.7		27	54	11.0		$-0 47$	$+15.9$	
5	15	8.8	9.0	$-0 39$	-17.7		28	54	11.0		$+0 2$	-6.0	
6	15	8.8	8.8	$+1 37$	$+15.6$		29	57	11.1		$-0 22$	-6.0	Ch. $10^{\text{M}}.5$ (\pm)
7	18	9.0	9.0	$+0 11$	$+19.4$		30	58	11.2		$-0 51$	-12.7	
8	20	9.1	9.3	$+0 32$	-27.0		31	62	11.4		$-0 1$	$+3.6$	Cumulus.
9	23	9.2	9.5	$-1 9$	$+6.3$		32	63	11.5		$+0 40$	-3.3	
10	24	9.3	9.4	$-0 43$	-4.5		33	64	11.5		$+1 4$	$+6.6$	
11	25	9.4	9.1	$+1 48$	$+8.7$		34	67	11.7		$+0 22$	-5.7	
12	27	9.5	9.5	$-1 9$	-17.4		35	69	11.8		$-0 24$	$+3.3$	
13	28	9.5		$-0 57$	$+23.1$		36	72	12.0		$-0 14$	-0.3	
14	31	9.7	9.5	$-0 43$	-27.3		37	73	12.0		$+0 26$	-12.0	
15	33	9.8	9.7	$-0 47$	-24.3		38	77	12.2		$+0 51$	-11.5	
16	33	9.8		$-1 0$	$+22.8$		39	77	12.2		$-0 11$	-5.4	
17	34	9.9	10	$+0 22$	$+27.0$		40	78	12.3		$+0 5$	-0.6	
18	35	9.9	9.5	$+1 36$	$+28.8$		41	81	12.4		$+0 46$	-11.7	
19	36	10.0	9.5	$+1 15$	-2.1		42	81	12.5		$-0 12$	-10.2	
20	40	10.2		$-0 54$	$+14.7$		43	86	12.7		$+0 29$	-3.9	
21	41	10.3	10	$-0 24$	$+15.2$		44	88	12.9		$+0 28$	$+0.3$	
22	43	10.4		$-0 56$	-1.0		45	94	13.2		$-0 2$	$+7.2$	
23	46	10.6		$-0 36$	$+5.8$								

$$M = 9.4 + 0.055 (G - 25.4).$$

7733

Y Capricorni

 $21^{\text{h}} 26^{\text{m}} 27^{\text{s}}$ (1855.0) $-14^{\circ} 36'.9$ Max. = 2409790^{d} (5. Sept. 1885) + 206^{d} E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.9	8.0	$-0^{\text{m}} 6^{\text{s}}$	$+29'.3$		23	79	9.9	9.3	$-1^{\text{m}} 43^{\text{s}}$	$-13'.1$	
2	29	8.6	8.8	$+0 21$	$+ 4.5$		24	89	10.2	10	$+1 23$	-24.8	
3	34	8.8	8.7	$+2 2$	$- 0.3$		25	87	10.2		$-0 43$	$- 3.6$	
4	40	8.9	9.1	$-0 36$	$+27.5$		26	90	10.3		$+0 45$	-12.2	
5	42	9.0	8.8	$-1 43$	-29.3		27	93	10.3		$-1 0$	$+11.7$	
6	43	9.0	9.0	$+1 48$	$+ 6.6$		28	94	10.4		$+0 6$	$- 6.9$	
7	45	9.1	9.3	$-1 16$	$+26.6$		29	95	10.4		$-0 29$	$+ 1.5$	
8	46	9.1	9.0	$-2 0$	-16.1		30	96	10.4		$-0 57$	-12.8	
9	48	9.1	9.3	$+0 4$	$+20.3$		31	96	10.4		$-0 16$	$- 0.3$	
10	52	9.2	9.5	$+1 21$	$- 5.1$		32	96	10.4		$-0 32$	$+ 1.8$	
11	53	9.3	9.3	$-0 20$	-22.7		33	96	10.4		$-0 35$	$+ 6.0$	
12	54	9.3	9.3	$-0 37$	$+15.0$		34	98	10.5		$-0 59$	-11.3	
13	56	9.3	9.4	$+1 42$	$+17.1$		35	98	10.5		$+0 51$	$- 1.2$	
14	59	9.4	9.3	$+0 42$	$- 3.9$		36	98	10.5		$-0 38$	$+ 6.9$	
15	60	9.4	9.3	$+0 22$	$- 3.0$		37	99	10.5		$-0 15$	$+ 0.6$	
16	62	9.5	9.4	$-1 56$	$+ 9.3$		38	101	10.5		$-0 32$	$+ 5.4$	
17	68	9.7	9.4	$-0 40$	$- 6.0$		39	104	10.6		$-0 8$	$+10.8$	
18	70	9.7	9.6	$-0 20$	$- 8.1$		40	107	10.7		$+0 11$	$+ 7.5$	
19	72	9.8	9.8	$-1 31$	-12.5		41	112	10.8		$+0 21$	$- 1.2$	
20	72	9.8	9.7	$-0 19$	$+ 2.7$		42	113	10.8		$-0 12$	$+ 9.3$	
21	73	9.8		$-0 29$	$+15.6$								
22	77	9.9	10	$-1 23$	$+10.8$								

$$M = 9.3 + 0.026 (G - 54.9).$$

8230

S Aquarii

 $22^{\text{h}} 49^{\text{m}} 20^{\text{s}}$ (1855.0) $-21^{\circ} 7.0$ Max. $\Rightarrow 2400395^{\text{d}}$ (16. Dec. 1859) $+ 279^{\text{d}}.7$ E (Inaequalitas periodica).

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0		6.3	$-1^{\text{m}} 36^{\text{s}}$	$+12'.3$	S. 6 ^M .7	16	38	10.0	9.7	$-0^{\text{m}} 51^{\text{s}}$	$+15'.6$	
2	9	7.9	7.5	$+0 31$	$+ 3.9$		17	38	10.0	10	$+0 34$	-11.1	
3	15	8.3	8.3	$+0 23$	-19.8		18	41	10.2	10	$+1 6$	-29.1	
4	17	8.5	8.5	$-1 12$	-11.4		19	46	10.5		$+0 37$	$+12.0$	
5	21	8.8	8.9	$+1 48$	-33.0		20	49	10.8		$-0 23$	-12.6	
6	27	9.2	9.3	$-1 38$	-26.1		21	50	10.9		$-0 21$	-10.8	
7	30	9.4	9.3	$+2 15$	-16.5		22	55	11.2		$-0 30$	$+ 9.6$	
8	30	9.4	9.4	$-1 8$	$- 0.6$		23	58	11.5		$-0 1$	$- 8.1$	
9	31	9.5	9.6	$+0 55$	-15.0		24	61	11.7		$-0 17$	$- 0.3$	
10	32	9.6	9.4	$-1 19$	$+ 2.4$		25	62	11.7		$0 0$	$+ 4.5$	
11	32	9.6	9.7	$+0 9$	$- 5.4$		26	64	11.9		$+0 3$	$+ 4.8$	
12	33	9.7	9.3	$+1 47$	-18.0		27	71	12.4		$-0 44$	$- 2.4$	
13	34	9.7	9.6	$-1 15$	-24.6								
14	34	9.7		$-0 36$	$+15.0$								
15	37	9.9	9.6	$+1 34$	-29.4								

$$M = 9.0 + 0.073 (G - 24.3).$$

114

S Ceti

 $0^h 16^m 41^s$ (1855.0) $-10^\circ 7'.9$ Max. = 2405165^d (6. Jan. 1873) + $320^d.2$ E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.6	7.2	$+3^m 5^s$	$-32'.8$		18	37	10.2		$-0^m 7^s$	$+14'.8$	
2	3	7.9	7.8	$-1 17$	$+ 6.2$		19	37	10.3	10	$-0 15$	$+23.1$	
3	5	8.0	8.0	$-1 21$	-17.8		20	41	10.5	} 9.8	$-0 9$	-24.6	
4	9	8.3	8.5	$-1 15$	$+ 3.0$		21	44	10.7		$-0 9$	-25.6	
5	15	8.7	8.7	$-2 54$	$+ 5.7$		22	46	10.9		$+0 3$	$+14.4$	
6	19	9.0	9.3	$+0 15$	$+12.7$		23	46	10.9		$0 0$	$- 3.4$	Ch. 12^M (?)
7	20	9.0	9.2	$+1 51$	-13.8		24	50	11.2		$-1 2$	$- 2.2$	
8	23	9.3	9.4	$-0 16$	$- 8.1$		25	54	11.5		$+0 1$	$+11.1$	
9	27	9.5	9.5	$-0 35$	$+23.2$		26	57	11.7		$+0 36$	$+10.9$	
10	30	9.8	9.2	$-1 16$	-19.1		27	60	11.9		$-0 49$	$- 6.1$	
11	32	9.9	} 9.5	$+1 59$	$+ 9.5$		28	64	12.2		$+0 13$	$+10.2$	
12	32	9.9		$+2 2$	$+ 9.7$		29	66	12.3		$-0 35$	$+ 3.6$	
13	34	10.1	10	$+0 21$	$+10.2$		30	69	12.5		$-0 55$	-13.5	
14	35	10.1	9.8	$+1 30$	$+ 5.4$		31	72	12.7		$+0 33$	$+ 7.5$	
15	35	10.1	} 9.4	$-0 10$	$+20.4$		32	73	12.8		$-0 5$	$- 2.4$	
16	35	10.1		$-0 9$	$+19.8$		33	77	13.1		$-0 5$	$- 1.2$	
17	37	10.2	10	$-0 5$	$+ 8.1$		34	83	13.5		$+0 3$	-10.2	

Ch. 12^M , $- \varphi + 6'$ invisib.

$$M = 8.9 + 0.071 (G - 17.8).$$

1986

T Orionis

 $5^h 28^m 43^s$ (1855.0) — $5^\circ 34'.5$

Variatio irregularis.

Num.	Gradus*	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1			3	$-0^m 24^s$	$-26'.4$	S. 2 ^M 9, $\iota = \Sigma 752$	31	20	9.5	9.0	$-0^m 17^s$	$+23'.1$	Bd. 9 ^M 7 N. 752
2			4.0	$-0 34$	$+ 5.2$	S. 5.1, $\theta^1 = \Sigma 748^*$	32	20	9.5	9.5	$-0 24$	-22.8	" 9.5 " 711
3			5.0	$-0 28$	$+ 3.6$	S. 5.6, $\theta^2 = \Sigma 16$	33	20	9.5	9.8	$-1 1$	$+ 9.6$	" 10.0 " 479
4			6.7	$+1 38$	-27.9	S. 6.7	34	20	9.6	9.4	$-1 55$	-10.2	" 9.6 " 247
5	0	7.7	7.8	$-0 24$	$+ 3.6$		35	21	9.6	9.5	$-0 19$	$- 4.5$	" 10.8 " 746
6	2	7.8	7.8	$+0 25$	-10.2	Bd. 7 ^M 8 N. 905**	36	22	9.7	9.5	$-1 9$	$+21.6$	" 9.4 " 438
7	3	8.0	9.0	$-0 20$	$+12.9$	" 9.0 " 734	37	22	9.8	9.5	$-1 17$	$+25.5$	" 9.5 " 398
8	4	8.1	8.2	$+0 4$	$- 9.6$	" 8.6 " 843	38	22	9.8	10	$-0 30$	$+ 6.9$	" 9.8 " 669
9	7	8.3	8.3	$-0 45$	$+16.8$	" 9.0 " 554	39	23	9.8	9.5	$-1 36$	$- 8.4$	" 10.2 " 315
10	7	8.3	8.3	$-0 38$	-27.6	" 8.7 " 590	40	23	9.8		$-0 22$	$+ 2.1$	" 10.5 " 724
11	8	8.4	8.3	$-1 3$	$- 5.7$	" 8.7 " 467	41	24	9.8	9.5	$-0 59$	$- 4.8$	" 9.9 " 497
12	10	8.6	9.0	$-0 19$	$+ 3.3$	" 10.0 " 741	42	25	10.0	9.5	$+0 49$	$+ 8.7$	" 10.2 " 956
13	11	8.7	9.0	$+0 40$	-17.7	" 8.6 " 935	43	26	10.1	10	$-1 17$	-17.4	" 9.3 " 401
14	12	8.8	9.0	$-0 41$	$+ 0.6$	" 9.4 " 570	44	26	10.1	9.5	$-0 15$	$+16.8$	" 10.0 " 757
15	12	8.8	9.0	$-0 36$	-21.6	" 8.6 " 613	45	27	10.2		$+0 48$	0.0	" 10.5 " 955
16	13	8.9	9.1	$-1 55$	$- 8.1$	" 9.3 " 246	46	27	10.2	9.5	$+1 26$	$+26.7$	" 10.0 " 1031
17	14	9.0	9.0	$+0 48$	$+21.3$	" 9.3 " 953	47	72	10.2	10	$-2 0$	-17.4	" 9.4 " 235
18	14	9.0	9.1	$-0 55$	$- 2.1$	" 9.6 " 505	48	28	10.3	10	$-0 30$	$+19.5$	" 9.4 " 667
19	14	9.0	9.0	$+0 37$	$+ 4.2$	" 10.0 " 924	49	29	10.4	9.5	$-0 48$	$+23.1$	" 10.3 " 534
20	15	9.1	9.3	$-1 15$	-12.9	" 9.1 " 410	50	29	10.4	9.7	$+1 18$	$+18.3$	" 10.8 " 1015
21	15	9.1	9.3	$+0 8$	$+ 6.3$	" 9.9 " 848	51	29	10.4	10	$+1 45$	-24.6	" 9.8 " 1078
22	15	9.1	9.0	$-0 42$	-23.7	" 9.1 " 565	52	30	10.5		$+0 58$	$- 0.3$	" 10.6 " 974
23	16	9.2	9.1	$-1 16$	-14.4	" 9.4 " 404	53	30	10.5		$-0 50$	$+ 3.3$	" 10.1 " 523
24	17	9.3	9.1	$+1 7$	-23.7	" 9.2 " 997	54	30	10.5	10	$-0 50$	$+23.7$	" 10.2 " 521
25	18	9.3	9.5	$-1 36$	$+17.1$	" 10.7 " 311	55	30	10.5		$-0 8$	$+ 8.7$	" 10.8 " 781
26	18	9.3	8.8	$+0 20$	$+25.2$	" 9.2 " 888	56	31	10.5		$+0 41$	$+ 5.4$	" 10.8 " 938
27	18	9.3	9.3	$-0 23$	-19.8	" 9.4 " 714	57	32	10.7		$0 0$	-12.0	" 10.7 " 823
28	19	9.4	9.5	$-1 39$	$+ 5.7$	" 9.9 " 303	58	33	10.8		$-0 34$	$+ 6.9$	" 10.5 " 635
29	19	9.4	9.0	$-0 33$	$+25.0$	" 9.3 " 638	59	33	10.8		$-0 55$	$+ 5.4$	" 11.3 " 506
30	19	9.5	9.0	$+1 49$	$+23.7$	" 10.4 " 1082	60	33	10.8		$-0 9$	$+ 0.3$	" 10.8 " 784

* θ^1 = Trapezium: 7^M0, 8^M0, 4^M7, 6^M3, secundum Σ , in ordine A. R.

** Bd. significat Catalogum Georgii Ph. Bond (H. C. O. Vol. V. pp. 70—94). Vide etiam Catalogum 155 stellarum Ottonis Struve (Mém. de Petersb. t. V, 1862, pp. 118—122). Ambo Catalogi illustrantur chartis describentibus regionem circa trapezium. De stellis quae ibi probabiliter variables notantur vide notam in III. Catalogo D. Chandler. T Orionis est Bond 822 I'' I' et Herschel 138. De cujus variabilitate confer H. C. O. Vol. V. p. 137 sqq.

Comparisonem harum Magn. cum magn. photographis vide in H. C. O. Vol. XXXII. pp. 39—42, et Potsdam Astr. Obs. Vol. XI. pp. 60—67.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
61	34	10.9		+0 ^m 40 ^s	-14'.4	Bd. 10 ^M ₂ N. 937	69	42	11.7		-0 ^m 3 ^s	+12'.0	Bd. 11 ^M ₉ N. 808
62	35	10.9		-0 8	+15.0	" 10.8 " 785	70	43	11.7		-0 18	- 2.7	" 10.8 " 750
63	35	10.9		+0 16	-13.5	" 10.5 " 881	71	46	12.0		-0 26	- 2.4	" 10.3 " 690
64	37	11.1		-0 46	+14.1	" 10.1 " 551	72	49	12.3		-0 37	-11.4	" 11.8 " 599
65	37	11.1		+0 9	-11.4	" 11.0 " 855	73	60	13.3		-0 32	-14.4	" 12.3 " 658
66	37	11.2		-0 34	-10.8	" 11.1 " 639	74	64	13.7		-0 39	- 9.6	" 11.5 " 583
67	38	11.3		-0 24	+13.5	" 11.5 " 700		invis.			+0 2	- 0.3	" 13.9 " 832
68	41	11.5		+0 19	+ 0.9	" 11.3 " 889							

$$M = 9.1 + 0.094 (G - 15.3).$$

6905

R Sagittarii

 $19^{\text{h}} 8^{\text{m}} 11^{\text{s}}$ (1855.0) $-19^{\circ} 33'.5$ Max. = 2402801^{d} (18. Jul. 1866) + 268^{d}E + $20^{\text{d}} \sin(10^{\circ} \text{E} + 330^{\circ})$.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1			5.3	+0 ^m 58 ^s	+21'.3	S. 5 ^M 3, d=Fl. 43	36	45	9.9	9.6	-0 ^m 36 ^s	- 2'.7	
2	0	8.0	8.0	+1 31	+26.3	$\Sigma^{\text{I}} 2261 \text{ c. g.}$	37	47	9.9		+0 55	+ 4.5	
3	4	8.1	8.0	+3 18	- 1.2		38	49	10.0		+0 34	-18.7	
4	7	8.3	7.3	-1 17	-29.0		39	50	10.1		+0 36	+ 8.4	Duplex.
5	9	8.4	8.5	+1 39	- 3.7		40	51	10.1	9.5	+1 27	-27.5	
6	13	8.5	8.7	-1 56	+20.4		41	53	10.2	9.8	-0 45	+ 8.7	
7	16	8.6	9.0	+0 50	+14.7		42	53	10.2		-0 35	-11.4	
8	18	8.7	8.5	+1 23	+ 9.8		43	53	10.2		-0 34	+14.8	
9	19	8.8	8.8	+0 29	+19.2		44	55	10.3		-0 4	+ 1.5	Sch. 10 ^M 8
10	21	8.8	9.1	+0 43	+ 6.3		45	56	10.3	9.7	-0 33	-21.6	
11	25	9.0	9.2	+1 50	+13.9		46	57	10.3	9.9	+0 22	-24.7	
12	25	9.0	9.0	+1 14	- 7.0		47	57	10.4		+0 50	+ 3.3	
13	28	9.1	8.8	+1 4	-19.9		48	58	10.4		+0 52	+10.5	
14	28	9.2	9.3	-1 11	- 3.6		49	59	10.5		-0 53	+ 5.1	
15	29	9.2	9.3	+0 16	+15.0		50	60	10.5		-0 20	- 4.8	
16	29	9.2	9.4	+0 40	+15.6		51	62	10.6		+0 12	+ 4.8	
17	32	9.3	9.2	+0 48	-26.3		52	63	10.6		+0 23	+13.8	
18	33	9.4	9.3	-1 11	- 7.8		53	64	10.7		-0 34	+13.5	
19	34	9.4	9.4	+0 37	+11.2		54	67	10.8		+0 31	+10.8	
20	36	9.5	9.7	+1 5	+ 2.4		55	68	10.8		-0 38	+ 3.9	
21	37	9.5	9.3	+0 11	+ 5.4		56	71	10.9		+0 49	+ 8.4	
22	38	9.5	9.6	+1 42	+14.5		57	72	11.0		-0 11	+ 6.6	
23	38	9.6	9.8	-0 22	+24.0		58	73	11.0		+0 8	+ 7.0	
24	38	9.6	9.4	+0 24	- 0.6		59	75	11.1		-0 12	+ 0.9	
25	40	9.6	9.5	-1 25	- 2.7		60	79	11.3		+0 2	+ 4.9	
26	41	9.7	9.6	-0 8	-13.8		61	80	11.3		-0 16	+11.7	
27	42	9.7	9.9	-0 3	- 2.9		62	81	11.4		+0 15	-10.9	
28	43	9.8	9.8	+1 5	+13.4		63	84	11.5		-0 4	+ 7.0	
29	43	9.8	9.8	+1 10	+18.6		64	89	11.7		-0 14	0 0	
30	44	9.8	9.5	+1 53	-25.2		65	91	11.8		-0 1	-0 3	Sch. 11 ^M 3
31	44	9.8	9.5	0 0	+ 5.1		66	93	11.9		-0 8	-12.3	
32	44	9.8	9.5	-1 16	+ 6.9		67	94	11.9		+0 6	- 3.9	
33	44	9.8	9.6	-0 16	-14.4		68	95	11.9		+0 30	+ 1.5	
34	44	9.8	9.5	-1 2	- 6.3		69	96	12.0		+0 5	-13.0	
35	45	9.8	10	+1 17	+ 9.6		70	97	12.0		+0 25	- 9.0	

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
71	97	12.0		+0 ^m 6 ^s	- 2'.7		79	100	12.2		-0 ^m 16 ^s	-11'.7	
72	97	12.0		+0 3	-12.9		80	101	12.2		+0 41	- 3.0	
73	98	12.1		+0 3	- 5.1		81	104	12.3		+1 3	- 3.9	
74	98	12.1		+0 25	+ 1.8		82	105	12.4		+0 44	-12.0	
75	99	12.1		+0 45	-14.1		83	106	12.4		+0 56	- 3.0	
76	99	12.1		-0 21	- 4.0		84	113	12.7		+0 36	- 2.8	
77	100	12.2		-0 14	- 3.7		S			var.	+2 46	+16.4	
78	100	12.2		+0 46	0.0								

$$M = 9.0 + 0.042 (G - 24.8).$$

5430

T Librae

 $15^{\text{h}} 2^{\text{m}} 28^{\text{s}}$ (1855.0) — $19^{\circ} 27.8$ Max. = 2407105^{d} (30. Apr. 1878) + 238^{d} E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1			4.5	$+1^{\text{m}} 29^{\text{s}}$	$+13'.4$	{ S. $4^{\text{M}} 9$, $\iota = \text{Hh } 465$	18	37	10.3	10	$+0^{\text{m}} 9^{\text{s}}$	$- 9'.7$	Ch. $13^{\text{M}} (\pm)$
2	0	7.4	7.3	$-0 56$	-30.1		19	42	10.6		$+0 15$	$+ 5.0$	
3	12	8.3	9.0	$-1 44$	-22.6		20	42	10.7	10	$+0 7$	$- 0.7$	
4	19	8.8	9.2	$-0 23$	-10.0		21	47	11.0		$-0 28$	$+11.6$	
5	22	9.1	9.4	$-0 39$	$+ 8.3$		22	48	11.1		$-0 29$	$- 4.3$	
6	23	9.2	9.2	$+1 56$	$+11.3$		23	50	11.3		$-1 0$	$+ 6.9$	
7	24	9.3	9.5	$-1 32$	$+14.9$		24	53	11.5		$+0 18$	$+ 9.2$	
8	26	9.4	9.5	$-1 49$	-11.2		25	55	11.7		$-0 50$	$+11.3$	
9	27	9.5	9.8	$+0 32$	$+10.2$		26	57	11.8		$-0 9$	-14.2	
10	29	9.6	9.5	$-0 29$	$- 6.7$		27	59	12.0		$-0 3$	-13.3	
11	29	9.6	9.5	$+1 50$	$- 1.9$		28	61	12.2		$-0 54$	$+ 4.4$	
12	30	9.7	9.5	$+0 27$	$+ 9.5$		29	62	12.2		$+0 7$	-10.3	
13	30	9.7	9.0	$+1 33$	$+13.1$		30	68	12.7		$-0 17$	$+ 9.8$	
14	32	9.9	10	$-1 9$	-25.0		31	69	12.8		$-0 3$	$- 0.1$	
15	32	9.9	9.4	$+1 25$	-18.5		32	71	12.9		$-0 56$	$- 6.4$	
16	35	10.1	9.9	$-0 51$	-24.7								
17	37	10.3		$-0 45$	$+ 9.9$								

Ch. $13^{\text{M}} 5$, -1^{s} , $+1'$ invisib.

$$M = 9.5 + 0.078 (G - 27.1).$$

1944

S Orionis

 $5^{\text{h}} 21^{\text{m}} 51^{\text{s}}$ (1855.0) $-4^{\circ} 48'.7$ Max. = 2404 095^d (1. Febr. 1870) + 413^d E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.7	7.5	$-0^{\text{m}} 27^{\text{s}}$	$-0'.3$	h 2270	31	47	10.2	9.5	$+1^{\text{m}} 25^{\text{s}}$	$-30'.3$	
2	2	7.8	8.0	+1 51	+26.4		32	47	10.2	9.5	+1 27	-19.5	
3	9	8.2	8.5	-1 21	-34.5		33	50	10.4	10	-0 1	+ 1.0	
4	12	8.4	8.7	+2 5	- 6.6		34	52	10.5		-0 29	+ 8.1	
5	13	8.4	8.6	-2 3	+23.4		35	53	10.6		+0 15	- 0.9	
6	16	8.6	8.5	+1 11	-30.6		36	56	10.7		+0 27	- 7.5	
7	19	8.7	9.5	-0 25	+30.6		37	59	10.9		+0 3	+ 3.3	
8	20	8.8	9.0	-1 45	+15.3		38	60	10.9		-0 12	- 9.3	
9	21	8.9	9.2	-0 27	+29.4		39	60	11.0		-0 55	+12.6	
10	22	8.9	9.0	-1 41	+24.6		40	60	11.0		+0 58	- 4.2	
11	23	9.0	9.1	-1 50	-17.4		41	62	11.1		-0 55	+ 4.5	
12	27	9.2	9.5	-1 30	-23.4		42	62	11.1		-0 15	+ 8.4	
13	28	9.2	9.1	+0 55	-14.4		43	62	11.1		+0 37	+ 9.0	
14	28	9.2	9.1	+1 59	+ 6.0		44	63	11.1		-0 30	-12.6	
15	28	9.2	9.5	-0 37	+30.0		45	65	11.2		-1 0	+ 2.1	
16	30	9.3	9.5	-0 28	-23.4		46	66	11.3		-0 22	- 4.2	
17	31	9.4	9.1	+0 12	- 6.6		47	67	11.3		+0 42	- 5.4	
18	32	9.4	9.4	-0 39	-21.9		48	68	11.4		+0 10	+13.5	
19	33	9.5	9.3	-1 51	-15.9		49	68	11.4		-0 46	- 1.5	
20	33	9.5	9.4	-0 48	+21.3		50	69	11.4		-0 34	+ 7.2	
21	34	9.6	9.5	+0 15	+ 6.3		51	70	11.5		-0 7	-13.5	
22	37	9.7	9.4	-1 57	-13.5		52	70	11.5		+0 5	+ 6.0	
23	38	9.8	10	-0 40	-18.6		53	71	11.5		+0 30	- 3.0	
24	38	9.8	9.4	-0 2	- 0.4	*	54	73	11.6		0 0	+ 7.2	
25	41	9.9	9.7	-0 54	+ 9.3		55	73	11.7		-0 29	+ 3.0	
26	42	10.0	9.5	+1 0	0.0		56	74	11.7		+0 24	- 3.3	
27	44	10.1	9.5	+0 36	-24.6		57	75	11.7		+0 3	- 2.4	
28	44	10.1	10	+1 32	- 2.7		58	78	11.9		-0 23	+ 2.4	
29	45	10.1	9.5	+1 57	-15.9								
30	45	10.2		-0 49	+11.1								

* Per errorem notatur S. in C. G. Argent. 6341.

$$M = 9.0 + 0.054 (G - 23.6).$$

7252

W Capricorni

 $20^{\text{h}} 5^{\text{m}} 57^{\text{s}}$ (1855.0) — $22^{\circ} 24'.8$ Max. = 2404985^{d} (10. Jul. 1872) + $207^{\text{d}}.7$ E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.9	7.5	$-0^{\text{m}} 11^{\text{s}}$	$-3'.7$	CD. $7^{\text{M}}8$	21	48	10.0		$+0^{\text{m}} 40^{\text{s}}$	$+8'.6$	*
2	10	8.4	8.5	$-1 12$	-4.5	" 8.5	22	50	10.1	10	$+1 48$	-27.0	CD. $9^{\text{M}}8$
3	14	8.5	8.7	$+0 4$	$+25.4$		23	50	10.1		$-0 18$	-15.1	
4	22	8.9	9.1	$-1 18$	$+22.7$		24	51	10.1		$-1 12$	-7.9	" 10
5	24	9.0	9.4	$+0 5$	-3.6	" 9.3	25	54	10.3	9.8	$+0 56$	-10.5	" 10
6	26	9.0	9.1	$+1 51$	$+9.8$	" 9.1	26	55	10.3		$-0 6$	-9.1	" 10
7	27	9.1	9.2	$-1 2$	-9.4	" 9.2	27	59	10.5		$+0 20$	-0.1	" 10
8	30	9.2	9.0	$-1 52$	-28.0	" 9.2	28	63	10.6		$+0 45$	-5.8	
9	30	9.2	9.4	$-0 15$	-15.1	" 9.6	29	65	10.7		$+0 46$	$+2.0$	" 10
10	35	9.4	9.4	$-0 25$	-24.9	" 9.8	30	65	10.7	9.8	$-1 38$	-24.1	" 10
11	35	9.4	9.5	$+1 7$	-7.9	" 9.6	31	67	10.8		$+0 36$	$+5.3$	
12	38	9.6	10	$-0 23$	$+26.0$		32	70	10.9		$-0 28$	$+7.7$	
13	41	9.7		$+0 6$	-13.0	" 9.6	33	73	11.1		$+0 2$	-16.3	
14	41	9.7	9.8	$-1 15$	$+8.0$	" 9.7	34	74	11.1		$+0 26$	-2.8	
15	44	9.8		$+0 38$	$+8.3$	*	35	77	11.2		$+0 8$	-0.1	
16	44	9.8	9.5	$-0 18$	-24.0	" 9.8	36	80	11.4		$-0 21$	-3.7	
17	46	9.9		$+1 0$	-13.6	" 9.9	37	84	11.5		$0 0$	-8.5	
18	46	9.9	9.5	$-0 37$	-15.2	" 9.8							
19	46	9.9	9.8	$+1 36$	$+24.8$								
20	48	10.0		$-0 51$	-14.8	" 9.8							

* (15 et 21) = BD. — $22^{\circ} 53'75$, $9^{\text{M}}9$.

$$M = 9.0 + 0.043 (G - 24.8).$$

Z Sagittarii

 $19^{\text{h}} 11^{\text{m}} 7^{\text{s}}$ (1855.0) — $21^{\circ} 11'.2$
 $\text{Max.} = 2410865^{\text{d}}$ (15. Aug. 1888) + 452^{d} E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.4	8.3	$-1^{\text{m}} 21^{\text{s}}$	$+29'.5$		38	67	10.8		$+0^{\text{m}} 43^{\text{s}}$	$+9'.0$	
2	3	8.5	8.3	$-0 27$	$+2.0$		39	68	10.8		$+0 6$	-1.4	
3	7	8.6	8.5	$-0 11$	-15.4		40	69	10.8		$-0 37$	$+5.0$	
4	11	8.8	8.8	$+0 45$	-20.3		41	69	10.8		$+0 38$	$+9.9$	
5	16	9.0	9.0	$+1 18$	$+13.8$		42	69	10.9		$-0 36$	-2.6	
6	19	9.1	9.2	$-0 13$	$+30.2$		43	71	10.9		$-0 36$	$+9.1$	
7	20	9.1	9.3	$+0 7$	$+18.2$		44	72	11.0		$+0 19$	$+12.1$	
8	20	9.1	9.1	$-1 54$	-14.4		45	72	11.0		$+0 12$	-5.9	
9	23	9.2	9.5	$+0 7$	-13.2		46	73	11.0		$-0 47$	-7.7	
10	24	9.3	9.7	$+1 35$	$+27.3$		47	74	11.0		$-0 21$	$+3.8$	
11	24	9.3	9.5	$+0 7$	-23.2		48	74	11.0		$+0 17$	$+3.1$	
12	26	9.3	9.1	$-0 56$	-29.2		49	75	11.1		$+0 30$	-3.5	
13	26	9.3	9.5	$-0 37$	$+13.8$		50	75	11.1		$-0 13$	$+13.3$	
14	30	9.5	9.5	$+0 57$	$+9.1$		51	75	11.1		$-0 13$	-6.2	
15	30	9.5	9.4	$+0 54$	-2.4		52	76	11.1		$+0 2$	-0.6	
16	33	9.6	9.7	$-1 45$	$+26.1$		53	78	11.2		$-0 3$	$+6.1$	
17	34	9.6	9.6	$+1 40$	-15.0		54	78	11.2		$+0 30$	$+8.8$	
18	34	9.6	9.5	$-1 38$	-27.4		55	79	11.2		$+0 2$	$+12.4$	
19	37	9.7	9.4	$-1 48$	-12.9		56	79	11.2		$0 0$	-4.4	
20	38	9.7	9.6	$+1 31$	-19.4		57	80	11.2		$-0 7$	-7.7	
21	39	9.8		$+1 37$	-1.7		58	81	11.3		$-0 48$	$+5.5$	
22	39	9.8	10	$+1 25$	$+26.4$		59	81	11.3		$+0 5$	-0.3	
23	40	9.8	9.9	$+1 40$	-24.0		60	82	11.3		$+0 44$	-10.4	
24	42	9.9	9.9	$-0 48$	$+16.6$		61	83	11.4		$-0 24$	$+13.9$	
25	43	9.9	9.5	$-0 20$	-5.3		62	83	11.4		$+0 21$	$+1.9$	
26	47	10.1	10	$+1 15$	-2.6		63	83	11.4		$-0 4$	-3.2	
27	49	10.1	9.9	$-0 45$	-1.6		64	85	11.4		$+0 19$	$+7.9$	
28	50	10.2	9.8	$+1 31$	-15.8		65	85	11.4		$+0 38$	-2.6	
29	54	10.3		$-0 55$	-5.7		66	86	11.5		$+0 34$	-12.2	
30	60	10.5		$-0 17$	-2.0		67	86	11.5		$-0 19$	-4.1	
31	61	10.6		$-0 57$	$+2.8$		68	88	11.5		$-0 25$	$+5.8$	
32	62	10.6		$+0 29$	-12.5		69	88	11.5		$+0 5$	$+13.6$	
33	62	10.6		$+0 13$	-0.4		70	90	11.6		$-0 9$	$+3.1$	
34	63	10.6		$0 0$	-0.5		71	92	11.7		$-0 36$	$+14.5$	
35	64	10.7		$+0 27$	$+5.5$								
36	66	10.7		$-0 49$	-9.9								
37	66	10.8		$-0 59$	$+12.7$								

$$M = 9.5 + 0.036 (G - 30.9).$$

8597

V Ceti

 $23^{\text{h}} 50^{\text{m}} 29^{\text{s}}$ (1855.0) $-9^{\circ} 46'.1$ Max. = 2407590^{d} (28. Aug. 1879) + 261^{d} E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.6	8.0	$-2^{\text{m}} 10^{\text{s}}$	$-6'.3$		16	67	10.2		$-0^{\text{m}} 2^{\text{s}}$	$+9'.3$	
2	14	8.1	7.8	$+1 14$	$+27.8$		17	68	10.2	10	$+1 33$	-2.1	
3	25	8.5	8.5	$+0 55$	$+8.1$		18	74	10.4		$+0 18$	-2.4	
4	38	9.0	9.2	$-1 28$	$+14.3$		19	76	10.5		$+0 14$	$+6.9$	
5	47	9.4	9.5	$+1 32$	-19.2		20	78	10.6		$+0 53$	$+1.8$	
6	48	9.5	9.4	$-1 7$	-27.3		21	78	10.6		$-0 57$	-2.1	
7	51	9.5	9.6	$-1 20$	$+11.1$		22	81	10.7		$-0 30$	-2.1	
8	52	9.6	9.5	$-1 3$	$+13.7$		23	82	10.7		$-0 2$	-3.9	
9	56	9.8	9.5	$+0 30$	-26.7		24	82	10.7		$-0 7$	$+2.1$	
10	59	9.9	9.5	$-1 57$	$+23.7$		25	86	10.9		$-0 28$	$+2.1$	
11	60	9.9	10	$-1 36$	-19.5		26	90	11.0		$+0 43$	$+3.3$	
12	63	10.0	10	$-1 54$	-5.7		27	95	11.2		$+0 32$	$+1.5$	
13	63	10.0	9.9	$-1 38$	$+26.0$		28	97	11.3		$+0 5$	$+1.5$	
14	63	10.0		$+1 1$	$+2.7$								
15	66	10.1		$-0 44$	-2.1								

$$M = 8.1 + 0.038 (G - 12.8).$$

7577

X Capricorni

 $21^{\text{h}} 0^{\text{m}} 15^{\text{s}}$ (1855.0) $-21^{\circ} 55'.8$ Max. = 2403196^{d} (17. Aug. 1867) + $218^{\text{d}}.1 \text{ E} + 20^{\text{d}} \sin(10^{\circ} \text{ E} + 50^{\circ})$.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1			5.3	+0 ^m 1 ^s	+ 9'.6	S. 5 ^M .4, $\chi_{25} = h_{3009}$	16	35	9.8	10	+1 ^m 25 ^s	+14'.4	CD. 9 ^M .5
2	0	7.9	7.8	+0 3	-20.1	CD. 7 ^M .8	17	38	10.0	9.6	-1 27	-26.3	
3	4	8.1	8.3	+1 2	+18.0		18	38	10.0	9.8	+1 14	+10.5	
4	11	8.5	8.7	-1 25	+27.5		19	38	10.0	9.9	-1 32	+24.6	" 9 ^M .6
5	18	8.9	9.2	-0 20	+21.1		20	41	10.1	10	+1 9	- 9.0	
6	20	9.0	9.0	-0 33	+ 8.7		21	43	10.3		+0 30	- 2.4	
7	22	9.1	9.0	-0 37	+14.1		22	44	10.3	10	+0 9	- 3.0	
8	22	9.1	9.1	-0 39	-18.9	" 9.3	23	45	10.3		-0 20	- 0.6	
9	23	9.2	9.3	+1 34	+29.0		24	49	10.6		+0 47	+ 6.0	
10	28	9.4	9.5	+1 28	-14.4	" 9.3	25	53	10.8		+0 57	+14.7	
11	28	9.5	9.5	-0 5	+23.7		26	55	10.9		+0 5	+ 9.9	
12	31	9.6	9.3	-0 55	- 9.6	" 9.3	27	58	11.0		+0 13	- 3.3	
13	32	9.7	10	+1 53	+17.7		28	60	11.2		-0 13	- 8.4	
14	33	9.7	9.8	-1 53	+24.0		29	66	11.5		+0 46	- 7.5	
15	35	9.8	9.5	+0 50	-21.3	" 9.6	30	76	12.0		-0 38	+ 6.6	
							31	85	12.5		-0 43	+ 1.5	

$$M = 8.9 + 0.054 (G - 17.9).$$

757¹

V Capricorni

 $20^{\text{h}} 59^{\text{m}} 9^{\text{s}}$ (1855.0) — $24^{\circ} 30'.2$ Max. = 2403197^{d} (18. Aug. 1867) + $157^{\text{d}}.1 \text{ E}$ + $15^{\text{d}} \sin (10^{\circ} \text{ E} + 100^{\circ})$.

Num.	Gradus	Magn.	CD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	CD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.4	7.4	+1 ^m 36 ^s	+17'.7		21	85	10.6	10	+0 ^m 5 ^s	+26'.1	
2	4	7.6	7.6	+0 55	-17.4		22	87	10.6	9.9	+0 10	+ 3.1	
3	27	8.4	8.5	-2 41	+18.6		23	87	10.6	10	-1 0	- 5.8	
4	39	8.9	9.0	-1 37	-16.2		24	88	10.7	9.8	-0 58	- 4.5	
5	47	9.2	8.7	-0 57	+19.8		25	90	10.8	10	+0 2	+13.6	
6	51	9.3	9.3	-0 45	+20.3		26	91	10.8	10	-0 58	-17.8	
7	56	9.5	9.0	-1 20	+20.6		27	94	10.9	9.8	+1 12	+27.7	
8	57	9.6	9.5	-1 18	-17.3		28	96	11.0	10	-1 46	- 0.9	
9	60	9.6	9.6	+0 22	- 6.8		29	100	11.1	10	+0 20	-12.9	
10	64	9.8	9.4	-1 19	+21.6		30	101	11.2		-0 4	+10.8	
11	64	9.8	9.6	-2 2	+ 0.2		31	105	11.3	10	+0 34	+15.1	
12	66	9.9	9.8	+1 35	+ 3.1		32	111	11.5		+0 15	+13.8	
13	69	10.0	9.8	+1 33	+ 2.6		33	114	11.6		-0 51	- 5.2	
14	74	10.2	9.7	+0 44	- 2.4		34	116	11.7		+0 10	- 0.9	
15	74	10.2	9.6	-1 36	+30.0		35	120	11.9		+0 48	-10.0	
16	74	10.2	9.9	-0 13	-23.6		36	123	12.0		+0 3	-14.2	
17	75	10.2	9.8	-1 53	+11.4		37	127	12.1		+0 34	+ 2.3	
18	77	10.3	9.9	+0 48	+ 8.1		38	130	12.2		-0 30	+12.9	
19	80	10.4	9.9	+0 13	-20.3		39	130	12.2		+1 1	- 7.5	
20	84	10.6	10	+0 10	+15.6								

Computatio magnitudinum hic paullulum differt a consueta, quia limitem 10^{M} in catalogo CD. nostris observationibus ad scalam Bonnensem reduximus.

$$M = 9.0 + 0.037 (G - 47.4).$$

7907

U Aquarii

 $21^{\text{h}} 55^{\text{m}} 24^{\text{s}}$ (1855.0) $-17^{\circ} 19'.5$ Max. = 2406105^{d} (4. Aug. 1875) + 258^{d} E?

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1			6.8	$-0^{\text{m}} 54^{\text{s}}$	$-20'.4$	Dupl. Fl. 29.*	16	32	10.5		$-0^{\text{m}} 11^{\text{s}}$	$+12'.6$	
2	0	8.1	8.0	$+0 53$	$+27.7$		17	36	10.8		$-0 31$	$- 3.0$	
3	4	8.4	8.5	$-1 30$	$- 8.9$		18	36	10.9		$-0 50$	$+ 5.1$	
4	7	8.7	8.8	$-0 51$	$+26.6$		19	40	11.2		$-0 1$	$- 2.1$	
5	10	8.9	9.0	$+0 2$	$+27.2$		20	43	11.4		$-0 48$	$+ 0.2$	
6	12	9.1	9.1	$-2 3$	$+24.8$		21	47	11.7		$-0 33$	$- 6.6$	
7	14	9.2	9.1	$-0 34$	$+11.8$		22	47	11.7		$-0 29$	$+ 4.9$	
8	15	9.3	9.2	$+0 11$	-27.1		23	48	11.8		$+0 48$	$-0 .3$	
9	18	9.5	9.5	$+0 13$	-16.9		24	49	11.9		$-0 53$	$- 4.0$	
10	18	9.5	9.3	$+0 15$	$+ 9.9$		25	56	12.4		$+0 15$	$- 6.2$	
11	20	9.7	9.9	$+1 4$	-14.4		26	61	12.8		$+0 14$	$- 0.6$	
12	22	9.8	9.9	$+1 7$	-10.8		27	66	13.2		$+0 26$	$+ 1.9$	
13	24	9.9	9.8	$-1 57$	$+23.1$								
14	24	10.0	9.8	$+1 43$	-13.0								
15	25	10.1	10	$+0 25$	$- 6.4$								

* Σ^1 2654 c. g., U. A. $7\frac{1}{2}^{\text{M}}$, 7^{M} in ordine A. R.

$$M = 9.0 + 0.077 (G - 24.2).$$

593^I

S Ophiuchi

 $16^{\text{h}} 25^{\text{m}} 55^{\text{s}}$ (1855.0) — $16^{\circ} 51'.1$ Max. = 2399 495^d (29. Jun. 1857) + 233^d.8 E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.1	8.0	$-2^{\text{m}} 37^{\text{s}}$	$-32'.9$		23	97	10.8		$+0^{\text{m}} 17^{\text{s}}$	$+ 5'.9$	
2	5	8.2	8.3	$+2 45$	$- 0.4$		24	102	11.0		$+0 41$	$+ 8.1$	
3	30	8.9	9.1	$-1 26$	$- 8.8$		25	102	11.0		$-0 14$	$+ 0.8$	Ch. 12 ^M
4	30	8.9	9.0	$+0 21$	$+14.7$		26	106	11.1		$+0 21$	$- 2.1$	
5	37	9.1	9.1	$-1 44$	-29.6		27	108	11.1		$-0 17$	$+ 6.6$	Duplex.
6	41	9.2	9.3	$+2 0$	$- 1.8$		28	110	11.2		$+0 41$	$+ 3.3$	
7	42	9.3	9.4	$+0 53$	$+11.8$		29	114	11.3		$+0 28$	$+11.4$	
8	49	9.5	9.5	$+0 57$	$+ 0.4$		30	114	11.3		$+0 47$	$- 8.7$	
9	50	9.5	9.4	$+1 56$	$+ 8.4$		31	121	11.5		$+0 57$	$- 8.4$	
10	56	9.7	9.5	$+0 49$	$+26.0$		32	125	11.6		$+0 37$	$+ 6.3$	
11	56	9.7	9.5	$-1 7$	$+12.9$		33	125	11.6		$-0 9$	$+11.4$	
12	59	9.8	9.8	$-0 54$	$+ 9.3$		34	128	11.7		$-0 11$	$+ 9.0$	
13	65	9.9	9.7	$+0 39$	-21.3		35	131	11.8		$+0 1$	$+ 6.3$	
14	67	10.0		$+0 59$	$+11.3$		36	135	11.9		$-0 13$	$+ 9.9$	
15	70	10.1		$+0 28$	$- 6.6$		37	135	11.9		$-0 28$	$- 2.7$	
16	75	10.2		$-0 52$	$- 9.6$		38	143	12.2		$-0 15$	$- 4.8$	
17	77	10.3		$-0 22$	-10.5		39	146	12.2		$+0 2$	$- 4.5$	
18	81	10.4		$+0 44$	-12.0		40	152	12.4		$+0 14$	$- 2.2$	
19	84	10.5		$+0 8$	-10.4		41	156	12.5		$-0 2$	$- 7.5$	
20	86	10.5		$-0 55$	$+ 3.0$								
21	92	10.7		$-0 5$	$+ 4.2$	Ch. 11 ^M							
22	95	10.8		$-0 54$	$- 3.0$								

$$M = 8.9 + 0.029 (G - 29.2).$$

S Sagittarii

 $19^h 10^m 57^s$ (1855.0) — $19^\circ 17'.1$ Max. = $2\,402\,870^1$ (25. Sept. 1866) + 230.6 E (Inaequalitas periodica).

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1			5.3	$-1^m 48^s$	+ 4'.8	S. 5 ^M 3, d=Fl. 43 Σ^1 2261 c. g. Hh 607	36	51	10.3		+0 ^m 1 ^s	+14'.1	
2	0	8.0	8.0	-1 14	+ 9.6		37	56	10.5		+0 50	-12.3	
3	3	8.2	8.0	+0 33	-20.7		38	56	10.5		-0 54	-10.8	
4	3	8.2	8.0	-0 55	+19.5		39	58	10.6		+0 34	+ 5.4	
5	5	8.3	8.3	+1 50	+22.2		40	61	10.7		+0 11	+13.5	
6	6	8.3	8.5	-1 6	-20.2		41	64	10.8		+0 24	+11.1	
7	8	8.4	8.5	-0 41	+17.4		42	67	11.0		-1 1	- 9.6	
8	11	8.5	8.8	+1 1	+ 9.3		43	67	11.0		+0 21	- 0.3	
9	13	8.6	8.7	-1 58	+26.7		44	68	11.0		-0 35	+ 9.9	
10	15	8.7	9.0	-1 55	- 1.8		45	68	11.0		-0 7	-14.1	
11	15	8.7	9.1	+1 4	+ 1.5		46	68	11.0		+0 51	- 3.6	
12	17	8.8	8.5	-2 3	+15.6		47	70	11.1		-0 15	-12.9	
13	17	8.8	9.2	+1 24	- 2.4		48	71	11.1		+0 41	- 7.0	
14	18	8.8	8.5	-1 23	- 6.6		49	73	11.2		-0 49	+ 8.7	
15	24	9.1	9.2	-0 55	- 2.7		50	73	11.2		+0 57	+ 0.9	
16	25	9.1	9.0	-1 31	-23.7		51	73	11.2		+0 17	+ 8.7	
17	27	9.2	9.5	+1 10	- 8.4		52	73	11.2		+0 8	- 6.3	
18	29	9.3	9.1	+0 5	-27.0		53	74	11.3		-0 16	+ 9.0	
19	31	9.4	9.5	+0 51	+14.1		54	74	11.3		-0 18	- 2.7	
20	31	9.4	9.3	+0 50	-29.0		55	75	11.3		-0 37	-10.5	
21	32	9.5	9.4	+0 22	-15.0		56	75	11.3		+0 54	- 1.2	
22	34	9.5	9.3	-0 4	-26.0		57	75	11.3		-0 43	+12.0	
23	36	9.6	9.8	+0 33	+23.1		58	75	11.3		-0 49	+ 6.0	
24	36	9.6	9.7	-1 41	-14.2		59	77	11.4		-0 4	-10.2	
25	38	9.7		+0 21	+23.1		60	78	11.4		-0 21	- 0.3	
26	38	9.7	9.6	-1 4	- 2.4		61	79	11.5		-1 0	+12.3	
27	39	9.7		+0 45	+18.0		62	81	11.6		+0 19	- 3.3	
28	39	9.8	9.5	+0 52	-15.6		63	81	11.6		0 0	+ 4.9	
29	44	9.9	9.8	-1 39	- 2.7		64	81	11.6		-0 35	-13.2	
30	45	10.0		+0 45	+ 8.1		65	82	11.6		-0 22	-12.6	
31	45	10.0	9.8	-1 35	+ 2.1		66	83	11.7		-0 12	+ 8.7	
32	46	10.0	10	-1 28	- 6.8		67	84	11.7		-0 20	- 5.4	
33	47	10.1		-0 58	+11.7		68	88	11.9		-0 40	+10.5	
34	47	10.1		+0 32	- 8.7		69	89	11.9		-0 5	+ 4.5	
35	50	10.2	9.8	+0 29	- 1.2		R			var.	-2 46	-16.4	

Ch. 11^M, + 24' - 2'.5?

$$M = 9.0 + 0.044 (G - 21.9).$$

2857

U Puppis

 $7^h 54^m 2^s$ (1855.0) $-12^\circ 26'.6$ Max. = 2408148^d (8. Mart. 1881) + 315^d E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.7	7.6	$-1^m 5^s$	$-1'.2$		36	27	10.2	10	$+0^m 38^s$	$+12'.0$	
2	3	8.0	8.3	$+1 16$	$+2.7$		37	27	10.2	9.8	$+0 8$	$+10.8$	
3	3	8.0	8.5	$-0 24$	$+20.4$		38	28	10.2	9.8	$-0 50$	-18.9	
4	5	8.2	8.5	$-1 21$	$+20.1$		39	29	10.4		$-1 1$	-7.8	
5	5	8.2	8.5	$+1 43$	$+29.0$		40	29	10.4		$+0 33$	$+15.9$	
6	8	8.4	8.8	$+0 50$	$+6.9$		41	30	10.4		$-1 0$	-5.1	
7	10	8.6	8.7	$-1 56$	-28.1		42	31	10.6		$+0 35$	$+9.0$	
8	10	8.7	8.3	$+0 34$	$+3.0$		43	32	10.6		$-1 0$	$+11.1$	
9	13	8.9	8.7	$+0 33$	-23.1		44	33	10.7	9.5	$-0 10$	-12.9	
10	13	8.9	9.0	$+1 29$	$+2.4$		45	33	10.7		$-0 26$	$+3.3$	
11	14	9.0	8.9	$-0 4$	-14.4		46	33	10.7		$-0 36$	-10.2	
12	16	9.1	9.1	$+1 5$	$+17.7$		47	35	10.9		$-0 42$	-4.2	
13	17	9.2	9.0	$-0 7$	-13.5		48	36	11.0		$-0 15$	$+11.7$	
14	17	9.3	9.1	$+1 36$	-21.0		49	36	11.0		$+0 39$	$+13.2$	
15	18	9.4	9.6	$-1 35$	$+10.8$		50	36	11.0		$-0 36$	-15.0	
16	19	9.4	10	$+1 19$	-10.8	Duplex.	51	37	11.0		$-0 4$	-4.5	
17	19	9.4	9.0	$-0 2$	-12.6		52	37	11.1		$+0 34$	-0.9	
18	19	9.4	9.7	$+1 48$	-14.7	Duplex.	53	37	11.1		$+0 22$	-4.5	
19	19	9.4	9.9	$+1 28$	-3.0		54	37	11.1		$-1 5$	$+1.2$	
20	20	9.5	9.3	$+0 44$	$+3.0$		55	37	11.1		$-0 33$	-14.4	
21	21	9.6	9.5	$-1 57$	$+16.2$		56	38	11.2		$+0 7$	-8.4	
22	21	9.6	9.3	$-0 25$	$+18.6$		57	38	11.2		$-0 12$	$+12.3$	
23	21	9.6	9.9	$+0 59$	-15.0		58	39	11.3		$-0 8$	-6.3	
24	21	9.7	9.4	$-1 51$	-3.3		59	39	11.3		$+0 51$	$+11.4$	
25	22	9.7	9.5	$+0 53$	$+7.8$		60	40	11.3		$-0 37$	$+13.5$	
26	22	9.7	9.1	$-0 28$	-24.0		61	40	11.3		$-0 14$	$+2.4$	Ch. 11 ^M
27	22	9.7	9.9	$+1 51$	$+18.0$		62	40	11.4		$-0 8$	-12.0	*
28	23	9.8	9.3	$-0 29$	-13.8		63	41	11.4		$-0 10$	$+12.0$	
29	23	9.8	10	$-1 24$	$+17.7$		64	41	11.4	9.9	$+1 39$	-6.9	Duplex.
30	24	9.9	9.7	$+0 25$	$+3.9$		65	42	11.5		$-0 7$	-9.0	*
31	25	10.0	10	$+1 5$	$+15.6$		66	42	11.5		$-0 47$	$+9.3$	
32	26	10.1	10	$-1 9$	$+11.7$		67	42	11.6		$+0 55$	$+9.0$	
33	27	10.1	9.7	$-1 43$	-12.3		68	43	11.6		$-0 40$	-9.3	
34	27	10.2	9.3	$-1 54$	-20.1		69	43	11.6		$-0 15$	$+9.6$	
35	27	10.2	9.5	$-1 13$	-27.2		70	44	11.7		$-0 49$	$+14.7$	

* $\frac{1}{2}(62+65) = \text{BD.} - 12^\circ 22' 11", 10^M ?$ Ch. 13^M, + $2^\circ - 1'.5$ invisib.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
71	45	11.8		+0 ^m 24 ^s	- 9'.6		86	49	12.2		-0 ^m 31 ^s	+ 9'.9	
72	45	11.8		-0 37	+12.3		87	49	12.2		+0 36	- 0.3	
73	45	11.8		+0 42	+10.5		88	51	12.3		+0 2	- 9.0	
74	46	11.9		+0 5	+ 5.4		89	51	12.3		+0 43	- 6.9	
75	46	11.9		-0 24	- 3.9		90	52	12.4		+0 9	0.0	
76	47	12.0		+0 20	- 3.6		91	52	12.4		-0 20	+ 6.9	
77	47	12.0		-0 30	- 0.9		92	52	12.5		-0 11	+ 4.2	
78	47	12.0		+0 12	+ 8.7		93	54	12.7		+0 23	- 2.1	
79	47	12.0		-0 43	+ 8.1		94	54	12.7		+0 16	+ 6.9	
80	47	12.0		+1 2	+ 8.4		95	55	12.7		+0 58	+ 3.0	
81	47	12.0		-0 5	+ 5.7		96	55	12.7		0 0	+10.2	
82	47	12.0		-0 55	- 3.6		97	56	12.8		+0 57	- 9.9	
83	48	12.0		-0 5	- 6.9		98	57	12.9		+1 1	+ 3.0	
84	49	12.1		+0 16	- 6.9		99	59	13.1		-0 9	- 1.2	
85	49	12.2		+0 30	+ 9.6		100	60	13.2		+0 51	+ 0.6	

$$M = 9.0 + 0.091 (G - 14.1).$$

845

R Ceti

 $2^h 18^m 38^s$ (1855.0) $-0^\circ 50'.1$ Max. = 2403028.0 (2. Mart. 1867) + 167.0 E, (Inaequalitas periodica).

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.0	8.0	$+1^m 28^s$	$-34'.3$		16	55	10.7		$-0^m 3^s$	$-15'.6$	
2	10	8.5	8.3	$+2 23$	$- 3.1$		17	56	10.8		$+0 17$	$+13.0$	
3	12	8.6	8.8	$+1 57$	$+24.0$		18	60	10.9		$+0 52$	$+ 4.2$	
4	22	9.1	9.3	$+1 9$	$+20.4$		19	65	11.2		$-0 50$	$- 9.6$	
5	26	9.3	9.3	$+2 9$	-32.0		20	66	11.2		$+0 25$	$+12.0$	
6	28	9.4	9.2	$+0 5$	-15.9		21	70	11.4		$-0 33$	-13.5	
7	29	9.4	8.9	$+1 36$	-13.8		22	73	11.5		$-0 57$	$+ 8.7$	
8	34	9.7	9.5	$-1 48$	-24.6		23	76	11.7		$-0 43$	$- 3.6$	
9	38	9.8		$+1 17$	$+ 9.6$		24	78	11.8		$-0 1$	-11.7	
10	44	10.2		$-0 39$	$- 5.7$		25	78	11.8		$-0 38$	-11.7	
11	45	10.2		$-0 22$	$+15.1$		26	82	12.0		$-0 59$	-12.9	
12	49	10.4		$-0 25$	$- 8.4$		27	87	12.2		$-0 15$	$- 1.2$	
13	49	10.4		$-0 39$	$+15.1$		28	92	12.5		$-0 1$	$+ 6.0$	
14	52	10.5		$+0 28$	$+14.2$		29	95	12.6		$-0 10$	$- 3.6$	
15	54	10.6		$-0 22$	$+ 6.3$	*							

* 15 = Ch. 11^M, $-12^\circ + 5'$?

$$M = 8.7 + 0.049 (G - 14.0).$$

3184

T Hydrae

 $8^h 48^m 37^s$ (1855.0) $-8^0 35'.4$ Max. = $2\,399\,739^d$ (28. Febr. 1858) + $288^d.8$ E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.6	7.0	$-1^m 26^s$	$+22'.5$	Variabilis?	29	48	10.4		$-0^m 21^s$	$-3'.3$	Ch. 10^M_5 (?)
2	10	8.2	8.5	$+1\ 46$	-16.2		30	51	10.6		$+0\ 46$	$+2.4$	
3	10	8.2	8.5	$+1\ 23$	-28.8		31	55	10.9		$+0\ 35$	-3.9	
4	11	8.2	8.3	$-1\ 17$	-3.9		32	55	10.9		$-0\ 48$	-7.5	
5	15	8.5	8.6	$+2\ 0$	$+23.1$		33	56	10.9		$+0\ 19$	$+10.5$	
6	17	8.6	9.0	$+1\ 39$	-18.9		34	56	10.9		$+0\ 12$	$+0.9$	
7	21	8.8	9.3	$+1\ 56$	$+2.1$		35	57	11.0		$-0\ 32$	-9.0	
8	21	8.9	8.8	$+1\ 6$	$+5.1$		36	58	11.1		$+1\ 2$	-3.6	
9	23	9.0	9.0	$-1\ 50$	-18.0		37	59	11.1		$+0\ 57$	-2.4	
10	24	9.0	9.0	$+1\ 34$	-20.1		38	59	11.1		$-0\ 7$	$+8.4$	
11	25	9.1	9.3	$-1\ 21$	$+5.4$		39	60	11.2		$-0\ 16$	$+14.1$	
12	26	9.1	9.1	$-0\ 55$	$+13.5$		40	60	11.2		$+0\ 36$	-3.6	
13	28	9.2	9.1	$+0\ 14$	-15.3		41	61	11.2		$+0\ 44$	$+9.9$	
14	29	9.3	9.1	$-1\ 2$	$+21.0$		42	62	11.3		$+0\ 8$	$+14.1$	
15	32	9.5	9.0	$-1\ 56$	$+11.7$		43	63	11.3		$-0\ 8$	$+2.1$	
16	33	9.6	9.3	$+1\ 44$	-6.9		44	63	11.3		$+0\ 22$	-5.4	
17	33	9.6	9.6	$+0\ 37$	-13.5		45	63	11.3		$+0\ 48$	-3.9	
18	33	9.6	9.3	$+0\ 3$	$+19.8$		46	64	11.4		$-0\ 6$	$+5.4$	
19	37	9.8	9.5	$-1\ 3$	-13.5		47	66	11.5		$+0\ 4$	$+14.4$	
20	37	9.8	10	$+0\ 8$	$+2.7$		48	66	11.5		$+0\ 13$	$+6.0$	
21	40	10.0	9.4	$-1\ 58$	-15.9		49	66	11.5		$+0\ 5$	-11.4	
22	43	10.2	10	$+0\ 43$	-7.2		50	66	11.5		$+0\ 41$	$+4.8$	
23	44	10.2		$-0\ 33$	-4.2		51	67	11.6		$-0\ 5$	$+5.3$	
24	45	10.3		$+0\ 33$	0.0		52	68	11.7		$+0\ 2$	-5.7	
25	45	10.3		$-0\ 28$	$+9.6$		53	68	11.7		$+0\ 52$	-5.1	
26	46	10.3		$+0\ 26$	-11.7		54	70	11.8		$+0\ 4$	$+5.1$	
27	47	10.4		$-0\ 38$	-1.5		55	73	11.9		$+0\ 33$	-2.7	
28	48	10.4		$+0\ 44$	$+15.3$								

$$M = 9.0 + 0.060 (G - 23.8).$$

8512

R Aquarii

 $23^{\text{h}} 36^{\text{m}} 19^{\text{s}}$ (1855.0) $-16^{\circ} 5'.3$ Max. = $2\,382\,847.^{\text{d}}6$ (30. Nov. 1811) $+ 387.^{\text{d}}16 \text{ E} + 35.^{\text{d}} \sin(10^{\circ} \text{ E} + 235^{\circ})$.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0		5.3	$-1^{\text{m}} 22^{\text{s}}$	$-9'.6$	S. $5^{\text{M}}8$	16	66	9.9	10	$-0^{\text{m}} 14^{\text{s}}$	$-26'.0$	
2	11		6.5	$-5\ 48$	$+11.9$	" 6.8	17	67	9.9	9.7	$+1\ 9$	-6.3	
3	20	7.8	7.8	$+2\ 4$	$+31.7$		18	75	10.3		$-1\ 1$	-14.4	
4	27	8.1	8.1	$-1\ 51$	-10.8		19	79	10.5		$+0\ 31$	-2.4	
5	35	8.5	8.7	$+0\ 13$	-23.1		20	79	10.5		$+0\ 49$	$+14.7$	
6	40	8.7	8.8	$-2\ 15$	-20.4		21	83	10.6		$-0\ 57$	-2.1	
7	42	8.8	9.0	$+0\ 35$	$+18.3$		22	86	10.8		$-0\ 36$	-11.7	
8	47	9.0	9.0	$+1\ 38$	-3.6		23	90	11.0		$-0\ 3$	$+12.6$	
9	51	9.2	9.0	$-1\ 54$	$+17.7$		24	94	11.1		$+0\ 35$	-12.3	
10	56	9.4	9.3	$-0\ 33$	$+12.0$		25	96	11.2		$+0\ 42$	-14.4	
11	57	9.5	9.6	$+0\ 32$	-14.7		26	99	11.3		$-0\ 45$	-6.7	
12	61	9.6	9.7	$+1\ 1$	$+26.4$		27	99	11.4		$-0\ 41$	-9.0	
13	64	9.8	9.5	$-0\ 31$	-9.3								
14	65	9.8	9.4	$-1\ 2$	-9.9								
15	65	9.8	9.5	$-1\ 42$	-9.9								

$$M = 9.0 + 0.045 (G - 46.7).$$

7468

T Aquarii

 $20^{\text{h}} 42^{\text{m}} 17^{\text{s}}$ (1855.0) $-5^{\circ} 40'.9$ Max. = $2\,401\,096^{\text{d}}.0$ (16. Nov. 1861) + $203^{\text{d}}.3$ E + 8^{d} sin ($7^{\circ}.5$ E + 255°).

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1			4.2	$-2^{\text{m}} 12^{\text{s}}$	+ 8'.1	S. 4 ^M 8	33	54	10.5	10	+0 ^m 35 ^s	-27'.6	
2	0		6.0	+2 11	-21.6		34	54	10.5		+0 4	-11.1	
3	4		6.5	+1 28	-27.9		35	59	10.8		-0 59	- 6.3	
4	9	7.5	7.5	-1 40	+30.7		36	59	10.8		+0 26	- 4.8	
5	14	7.8	8.5	+2 23	+26.6		37	60	10.9		+0 38	+10.5	
6	15	7.9	8.0	+0 46	+21.9		38	60	10.9		-0 38	+12.9	
7	20	8.2	8.8	-1 20	+23.1		39	61	11.0		+0 29	+ 8.1	
8	21	8.3	8.5	+1 53	+21.0		40	63	11.1		+0 23	- 6.6	
9	25	8.5	8.3	+0 24	+ 2.4		41	63	11.1		-1 5	+ 9.9	
10	32	9.0	9.4	+0 31	- 6.3		42	65	11.2		-0 37	- 4.5	
11	32	9.0	9.2	+1 31	- 2.7		43	65	11.2		+0 32	- 9.0	
12	35	9.2	9.4	-0 29	- 4.8		44	67	11.3		+0 55	+ 2.1	
13	36	9.3	9.1	+1 23	-26.7		45	67	11.3		+0 22	+ 5.7	
14	37	9.3	9.4	+1 46	+12.0		46	68	11.4		-0 40	+14.7	
15	37	9.3	9.5	-0 33	+17.7		47	70	11.6		+0 10	- 7.2	
16	37	9.4	9.3	+0 6	-25.8		48	71	11.7		-0 41	- 0.6	
17	40	9.5	9.5	-0 33	- 6.0		49	71	11.7		-0 34	- 8.4	
18	40	9.6	9.5	+0 42	- 5.4		50	71	11.7		+0 27	+13.5	
19	42	9.7	9.7	+1 13	- 5.1		51	74	11.9		+0 33	+11.7	
20	43	9.7	9.4	-1 4	-18.3		52	75	11.9		+0 3	+ 3.0	
21	46	10.0	10	-0 21	+ 3.3		53	76	12.0		-0 35	- 7.2	
22	47	10.0	9.7	+1 25	+ 6.0		54	76	12.0		+0 21	-14.7	
23	47	10.0	9.5	-1 42	-16.8		55	78	12.1		-0 33	- 9.0	
24	47	10.0	9.8	+0 38	-19.2		56	79	12.2		+0 19	+13.2	
25	48	10.1	9.5	-0 38	-27.6		57	82	12.4		-0 28	-11.1	
26	50	10.2	10	+0 20	-17.7		58	82	12.4		+0 2	- 2.7	
27	50	10.2		+0 48	- 6.0		59	85	12.6		+0 9	- 7.5	
28	52	10.3	10	-0 50	-28.2		60	85	12.6		+0 10	+ 2.4	
29	52	10.4	9.8	-1 39	+ 5.7		61	85	12.6		-0 48	- 3.3	
30	53	10.4	10	+0 17	-15.0								
31	53	10.4		+1 1	+ 3.6								
32	53	10.4		-0 48	+11.7								

$$M = 9.2 + 0.069 (G - 34.7).$$

4847

S Virginis

 $13^{\text{h}} 25^{\text{m}} 26^{\text{s}}$ (1855.0) $-6^{\circ} 26'.8$ Max. = 2397512^{d} (24. Jan. 1852) + $376^{\text{d}}.4 \text{ E} + 20 \sin (7^{\circ}5 \text{ E} + 180^{\circ})$.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0		6.6	$-2^{\text{m}} 33^{\text{s}}$	$+43'.5$	S. $6^{\text{M}}.4; 72 \text{ Virg.}^*$ S. 6.9.	18	49	10.6		$+0^{\text{m}} 8^{\text{s}}$	$+11'.7$	
2	7	7.3	7.0	$+0 24$	-25.8		19	52	10.9		$-0 43$	$+ 6.6$	
3	15	8.0	8.1	$+2 4$	$+13.8$		20	56	11.2		$-0 56$	$+14.1$	
4	21	8.5	8.5	$-0 40$	-14.4		21	61	11.6		$-0 58$	$+15.0$	
5	25	8.8	8.9	$-1 4$	-23.1		22	65	11.9		$-0 50$	$+ 8.7$	
6	26	8.8	9.1	$+0 50$	$- 5.4$		23	65	11.9		$+0 2$	$- 2.7$	
7	30	9.2	9.1	$-0 24$	$- 6.6$		24	67	12.1		$-0 15$	$+ 4.2$	
8	34	9.4	9.3	$-0 43$	$- 2.4$		25	71	12.4		$+0 49$	$+ 5.5$	
9	35	9.5	9.4	$+1 39$	-24.6		26	73	12.5		$-0 23$	$+12.6$	
10	35	9.5	9.6	$-1 47$	$+23.1$		27	74	12.6		$+0 12$	-15.0	
11	37	9.7	9.7	$-1 18$	$+12.0$		28	75	12.7		$-0 29$	$+ 8.1$	
12	39	9.8	9.5	$-0 35$	$- 2.7$		29	75	12.7		$+0 22$	$+ 4.2$	
13	40	9.9	10	$+1 25$	$+24.9$		30	76	12.8		$+0 5$	-15.0	
14	41	10.0	9.7	$+0 21$	$+16.8$		31	78	12.9		$-0 24$	$- 7.8$	
15	41	10.0	9.9	$-1 15$	-26.1		32	85	13.5		$+0 44$	$+ 9.0$	
16	43	10.1		$-0 22$	-14.7								
17	45	10.3	9.8	$-0 27$	$+29.4$								

* U. A. 154 Virg. var.?

$$M = 8.9 + 0.078 (G - 26.9).$$

5617

U Librae

 $15^{\text{h}} 33^{\text{m}} 37^{\text{s}}$ (1855.0) $-20^{\circ} 42'.6$ Max. = 2405363^{d} (23. Jul. 1873) + $226^{\text{d}}.2$ E (Inaequalitas periodica?).

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.1	8.1	$-1^{\text{m}} 20^{\text{s}}$	$-24'.8$		16	52	10.2		$+0^{\text{m}} 4^{\text{s}}$	$+12'.4$	
2	10	8.5	8.4	$+1 17$	$+ 4.0$		17	56	10.4		$+0 10$	-24.5	
3	16	8.8	9.1	$-1 38$	$+13.6$		18	59	10.5		$-0 53$	$+ 9.1$	
4	20	9.0	9.1	$-1 19$	$- 0.2$		19	63	10.7		$-1 0$	-14.6	
5	24	9.1	9.1	$+0 10$	$- 7.4$		20	67	10.8		$-0 10$	-12.1	
6	25	9.2	9.1	$+1 15$	$+27.1$		21	71	11.0		$-0 43$	$- 8.1$	
7	31	9.4	9.6	$-1 7$	$- 6.2$		22	72	11.0		$-0 30$	$+ 3.7$	
8	33	9.5	9.5	$+1 41$	$+12.1$		23	76	11.2		$-0 53$	$+12.1$	
9	38	9.7	9.6	$-0 40$	$+12.1$		24	76	11.2		$+0 28$	$+ 3.1$	
10	43	9.9	10	$-0 19$	$- 5.4$		25	80	11.4		$+0 46$	$+ 5.2$	
11	46	10.0	10	$-1 14$	-18.8		26	81	11.4		$-0 27$	$+ 7.3$	
12	47	10.0		$-0 52$	$- 0.2$		27	82	11.5		$-0 9$	$+ 1.1$	
13	48	10.1	10	$+1 38$	$- 0.5$		28	82	11.5		$+0 11$	$+ 3.4$	
14	49	10.1	10	$-0 2$	$+ 0.1$		29	87	11.7		$-0 2$	$- 2.6$	Duplex.
15	51	10.2	9.9	$+0 23$	-25.5		30	88	11.7		$-0 49$	$- 8.0$	

BD. $-20^{\circ} 4293$ ($9^{\text{M}} 8$, $-1^{\text{m}} 58^{\text{s}}.5$, $-11'.4$) nunquam visa (1891, 92, 94, 95).

$$M = 9.1 + 0.040 (G - 23.8).$$

5928

T Ophiuchi

 $16^{\text{h}} 25^{\text{m}} 27^{\text{s}}$ (1855.0) $-15^{\circ} 49'.2$ Max. = 2400507^{d} (6. Apr. 1860) + 361^{d} E?

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7.6	7.5	$-1^{\text{m}} 5^{\text{s}}$	+ 9'.1		13	94	10.1		$-0^{\text{m}} 56^{\text{s}}$	+ 3'.0	
2	20	8.1	8.2	+1 38	- 8.3		14	98	10.2	9.9	+1 26	-21.3	
3	51	9.0	9.3	+1 33	+15.0		15	106	10.5		+1 4	+11.7	
4	55	9.1	9.2	-0 34	+17.4		16	110	10.6		-1 43	+21.6	
5	59	9.2	9.2	-1 40	+21.6		17	111	10.6		-0 7	- 3.2	Ch. 10 ^M
6	64	9.3	9.5	+0 44	- 5.4		18	119	10.8		-0 29	-14.1	
7	69	9.5	9.5	+1 23	- 5.7		19	122	10.9		+0 27	- 4.5	
8	75	9.6		-0 46	+12.9		20	124	10.9		-0 49	+10.2	
9	79	9.7	9.7	-1 57	+19.2		21	133	11.2		+0 23	+ 3.9	
10	84	9.8	9.6	+0 3	- 8.3								
11	89	10.0		-1 3	- 0.1								
12	93	10.1		+0 21	+ 9.2								

$$M = 9.2 + 0.027 (G - 59.6).$$

7234

R Capricorni

 $20^{\text{h}} 3^{\text{m}} 10^{\text{s}}$ (1855.0) $-14^{\circ} 41'.6$ Max. = $2\,400\,391^{\text{d}}$ (12. Dec. 1859) + 345^{d} E?

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.2	8.2	$+1^{\text{m}} 30^{\text{s}}$	$+29'.0$	BD. = $46'.1$	23	58	10.7		$-0^{\text{m}} 28^{\text{s}}$	$-3'.0$	
2	5	8.4	8.5	$+0 12$	$+29.3$		24	58	10.7		$+0 44$	$+9.6$	
3	7	8.6	8.8	$-1 32$	-0.3		25	61	10.8		$-0 6$	$+6.6$	
4	16	8.9	9.0	$-1 43$	-0.6		26	63	10.9		$-0 46$	$+8.7$	
5	24	9.2	9.1	$-0 16$	-27.0		27	64	10.9		$+0 30$	-1.8	
6	27	9.4	9.4	$+1 20$	-9.9		28	66	11.0		$-0 41$	$+15.0$	
7	28	9.4	9.5	$+1 5$	$+7.8$		29	67	11.1		$+1 1$	-10.8	
8	36	9.8	9.8	$-1 39$	$+22.8$		30	68	11.1		$-0 48$	$+11.4$	
9	36	9.8	9.8	$+0 15$	-8.1		31	71	11.2		$+0 45$	-11.1	
10	38	9.9	9.8	$-1 32$	-26.0		32	74	11.4		$-0 50$	-8.8	
11	39	9.9		$-1 36$	$+15.9$		33	74	11.4		$+0 5$	$+2.4$	
12	41	10.0	10	$-1 0$	-0.3		34	75	11.4		$+1 2$	-8.1	
13	41	10.0	10	$-0 40$	$+3.6$		35	76	11.5		$-0 26$	$+12.3$	
14	42	10.0	9.8	$-0 44$	-3.0		36	79	11.6		$+0 33$	-3.9	
15	43	10.1		$-0 59$	$+11.1$		37	81	11.7		$-0 37$	$+4.5$	
16	44	10.1		$+0 58$	$+1.2$		38	81	11.7		$-0 38$	-13.8	
17	45	10.2		$-1 25$	$+24.2$		39	81	11.7		$+0 24$	$+6.9$	
18	45	10.2	10	$-1 16$	$+15.6$		40	84	11.8		$+0 43$	$+6.9$	
19	45	10.2	9.8	$-0 17$	-16.8		41	84	11.8		$-0 10$	0.0	
20	49	10.3		$-1 0$	$+20.4$		42	89	12.0		$+0 21$	$+6.0$	
21	49	10.3		$+0 42$	-9.6		43	91	12.1		$+0 13$	-13.2	
22	53	10.5		$+0 35$	-0.9								

Sch. 13^{M} , dist. $20''$, ang. 355° , invisib.

$$M = 9.1 + 0.042 (G - 20.1).$$

5249

V Librae

 $14^{\text{h}} 32^{\text{m}} 18^{\text{s}}$ (1855.0) $-17^{\circ} 1'.8$ Max. = 2408566^d (30. Apr. 1882) + 360^d E?

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.1	7.8	$-0^{\text{m}} 59^{\text{s}}$	$-13'.2$		26	52	10.6		$+0^{\text{m}} 27^{\text{s}}$	$-5'.1$	
2	4	8.3	8.3	$+1 53$	-9.9		27	52	10.6	9.9	$+1 47$	-8.1	
3	5	8.3	8.6	$-0 22$	$+12.6$		28	54	10.8		$+0 22$	$+5.1$	
4	8	8.5	8.5	$-1 53$	-12.9		29	55	10.8		$-0 32$	-14.4	
5	11	8.6	8.5	$+0 10$	-6.9		30	58	11.0		$+0 47$	$+11.7$	
6	15	8.8	8.9	$-1 8$	-3.9		31	60	11.0		$+0 22$	-8.1	
7	17	8.9	8.9	$+1 27$	$+23.2$		32	60	11.1		$-0 46$	-5.4	
8	18	9.0	9.1	$+0 26$	-18.6		33	63	11.2		$-1 7$	$+8.4$	
9	20	9.1	9.3	$-1 46$	$+23.1$		34	63	11.2		$+0 41$	$+13.5$	
10	20	9.1	9.5	$-1 30$	$+18.6$		35	67	11.4		$+0 24$	-12.3	
11	23	9.2	9.4	$+1 44$	-29.5		36	67	11.4		$-1 1$	-5.1	
12	24	9.3	9.3	$-1 33$	-24.0		37	69	11.5		$-0 33$	$+5.4$	
13	27	9.4	9.5	$-0 54$	$+5.4$		38	69	11.5		$+0 49$	$+7.8$	
14	29	9.5	9.6	$+1 25$	-22.0		39	71	11.6		$-0 30$	-3.6	
15	32	9.6	9.8	$-1 48$	$+6.6$		40	72	11.6		$-0 32$	$+14.1$	
16	35	9.8		$+0 14$	$+0.6$		41	74	11.7		$-0 58$	$+8.1$	
17	38	9.9		$-0 4$	$+13.2$		42	74	11.7		$-0 3$	-12.0	
18	41	10.1		$+0 33$	$+0.3$		43	75	11.8		$-0 13$	-9.0	
19	41	10.1		$+0 47$	$+5.2$		44	76	11.8		$+0 9$	-11.7	
20	43	10.2	10	$+0 9$	-25.8		45	77	11.9		$-0 36$	$+6.4$	
21	45	10.3		$+0 19$	$+15.0$		46	79	11.9		$-0 11$	-9.9	
22	47	10.4	9.9	$+0 12$	-29.1		47	79	12.0		$-0 28$	$+11.4$	
23	48	10.5	9.5	$-0 58$	-13.0								
24	49	10.5		$+0 47$	-3.3								
25	49	10.5		$+0 50$	-11.1								

$$M = 9.1 + 0.049 (G - 20.5).$$

5704

RR Librae

 $15^{\text{h}} 48^{\text{m}} 4^{\text{s}}$ (1855.0) $-17^{\circ} 52'.6$ Max. = 2409710^{d} (17. Jun. 1885) + $277^{\text{d}}.0$ E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.1	8.0	$-0^{\text{m}} 33^{\text{s}}$	$+16'.8$		26	53	10.7		$-1^{\text{m}} 0^{\text{s}}$	$-14'.7$	
2	4	8.3	8.6	$-0 47$	-29.3		27	57	10.9		$+0 44$	-9.0	
3	7	8.4	8.7	$-0 24$	$+25.8$		28	58	11.0		$-0 56$	-8.5	
4	9	8.5	8.7	$-0 21$	$+2.8$		29	60	11.0		$-0 28$	-14.7	
5	17	8.9	9.0	$-0 14$	-2.2		30	60	11.0		$-0 47$	$+6.6$	
6	19	9.0	9.2	$-0 6$	-18.3		31	61	11.1		$+0 45$	-13.8	
7	24	9.3	9.1	$-1 38$	-12.3		32	62	11.1		$-0 44$	-2.7	
8	25	9.4	9.0	$+1 58$	-10.5		33	62	11.2		$+1 0$	$+1.5$	
9	28	9.5	9.7	$+0 4$	-17.7		34	63	11.2		$-0 40$	$+12.6$	
10	30	9.6	9.3	$+1 56$	-19.5		35	64	11.2		$-1 4$	-14.4	
11	32	9.7	9.8	$-1 32$	-8.7		36	66	11.3		$+0 33$	-4.2	
12	33	9.7		$+0 37$	-5.4		37	66	11.4		$-0 32$	$+8.7$	
13	33	9.7	9.6	$+1 5$	$+0.6$		38	67	11.4		$-0 47$	-7.5	
14	34	9.8	9.8	$-0 1$	$+12.1$		39	69	11.5		$+0 9$	$+4.5$	
15	34	9.8	10	$+0 23$	-29.0		40	75	11.8		$-0 47$	-6.3	
16	38	10.0	9.9	$+0 44$	$+21.0$		41	75	11.8		$+0 18$	-1.8	
17	39	10.0		$-1 4$	-3.0		42	80	12.0		$+0 51$	-14.4	
18	40	10.1		$-0 41$	-0.9		43	81	12.1		$+0 19$	-6.3	
19	41	10.1	10	$-0 4$	$+8.7$		44	82	12.1		$+0 41$	-12.0	
20	43	10.2		$-0 38$	-14.7		45	84	12.2		$+0 44$	-5.4	
21	43	10.2	10	$-0 57$	-5.8		46	85	12.3		$+0 6$	-6.6	
22	44	10.3	10	$-0 14$	$+7.2$								
23	45	10.3		$+0 4$	$+13.8$								
24	50	10.6		$0 0$	-13.8								
25	53	10.7		$-0 5$	-3.3								

$$M = 9.1 + 0.049 (G - 20.3).$$

7455

U Capricorni

 $20^{\text{h}} 40^{\text{m}} 4^{\text{s}}$ (1855.0) $-15^{\circ} 18'.8$ Max. = $2399573^{\text{d}}.5$ (15. Sept. 1857) + $202^{\text{d}}.5 \text{ E}$ + $20^{\text{d}} \sin (5^{\circ} \text{ E} + 285^{\circ})$.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.6	8.5	+0 ^m 19 ^s	- 6'.9		26	45	10.5		+1 ^m 3 ^s	- 8'.7	
2	4	8.7	8.7	+1 0	- 6.6		27	47	10.6		-0 19	- 3.9	
3	6	8.8	8.8	-1 0	+13.2		28	49	10.6		-0 39	+ 4.8	
4	7	8.8	9.0	+0 56	+17.7		29	49	10.7		+0 11	+ 7.2	
5	9	9.0	9.1	-1 58	+ 3.5		30	50	10.7		-0 34	- 3.6	
6	10	9.0	9.2	-2 8	+ 3.9		31	52	10.8		+0 28	+ 7.2	
7	14	9.2	9.1	+1 1	+14.4		32	53	10.8		-0 31	-10.5	
8	14	9.2	9.2	-0 31	+ 6.9		33	54	10.9		-0 10	+ 9.3	
9	15	9.2	9.1	-1 16	-10.5		34	54	10.9		+0 22	+14.4	
10	15	9.2	9.0	+1 12	-28.1		35	57	11.0		-0 2	- 4.8	
11	16	9.2	9.4	+1 34	+21.9		36	57	11.0		+0 24	+ 9.9	
12	20	9.4	10	+1 16	+ 7.2		37	57	11.0		-0 48	+ 9.3	
13	21	9.5	9.4	+0 53	-24.6		38	61	11.2		-0 37	+ 7.5	
14	22	9.5	9.6	+0 35	- 0.9		39	62	11.2		+0 11	+14.7	
15	23	9.5	9.5	-1 39	-18.9		40	63	11.2		+0 18	- 3.6	
16	26	9.7	9.6	-0 32	+22.2		41	63	11.3		-0 17	-10.2	
17	29	9.8	9.5	-0 44	- 9.3		42	65	11.3		-0 21	- 3.0	
18	30	9.9	9.8	-1 30	+15.0		43	66	11.4		+0 42	+ 9.6	
19	34	10.0		+0 35	- 6.3		44	67	11.4		-0 33	-11.4	
20	35	10.1		+0 59	-14.4		45	67	11.4		+0 7	- 2.2	
21	37	10.1	9.5	-1 45	-29.9		46	68	11.5		+1 4	0.0	
22	41	10.3		-0 39	+15.0		47	73	11.7		+0 2	- 3.9	
23	41	10.3		-0 15	- 3.9	Ch. 10 ^M (?)	48	73	11.7		+0 28	- 2.4	
24	43	10.4		+0 39	0.0								
25	45	10.5		-0 59	+ 2.7								

$$M = 9.1 + 0.043 (G - 12.7).$$

7659

T Capricorni

 $21^{\text{h}} 14^{\text{m}} 0^{\text{s}} \quad (1855.0) \quad -15^{\circ} 46'.4$
 $\text{Max.} = 2\,398\,878^{\text{d}} \quad (21. \text{ Oct. } 1855) + 269^{\text{d}}.2 \text{ E.}$

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8.1	8.0	$-0^{\text{m}} 31^{\text{s}}$	+ 0'.6		18	53	10.4		$+0^{\text{m}} 52^{\text{s}}$	- 5'.7	
2	4	8.2	8.0	+0 16	+14.4		19	55	10.5		-1 17	+ 7.5	
3	12	8.6	8.8	+1 11	+20.4		20	55	10.5		-1 17	+ 6.6	
4	12	8.6	8.9	+1 34	+ 7.5		21	56	10.5		+0 42	-12.2	
5	16	8.8	9.0	-0 5	+ 4.4		22	56	10.6		-1 3	+ 1.2	
6	22	9.0	9.3	+0 33	+23.6		23	59	10.7		-0 15	+ 7.2	
7	28	9.3	9.3	+0 5	+14.1		24	62	10.8		+0 43	- 4.4	
8	30	9.4	9.5	+0 54	- 9.3		25	62	10.8		+0 10	- 6.1	
9	35	9.6	9.5	+0 43	+ 6.5		26	65	11.0		-0 43	+12.9	
10	37	9.7	9.5	+0 56	+15.6		27	66	11.0		-0 47	- 4.2	
11	38	9.8	9.5	+1 22	+19.5		28	68	11.1		+0 36	+ 9.9	
12	40	9.8	9.5	-1 7	-12.2		29	70	11.2		+0 22	- 4.8	
13	41	9.9	9.5	+0 55	+12.6		30	75	11.4		-0 12	+ 1.8	
14	44	10.0	9.5	+1 35	+18.0		31	78	11.5		-1 0	- 3.6	
15	45	10.1	10	+0 31	- 0.6		32	79	11.6		+0 25	- 4.5	
16	49	10.2		-0 13	+11.7								
17	50	10.3		-0 54	- 6.9								

$$M = 9.0 + 0.044 (G - 20.9).$$

6903

T Sagittarii

 $19^h 7^m 52^s$ (1855.0) $-17^\circ 13'.2$ Max. = 2413384^d (9. Jul. 1895) + 384^d E.

Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0		6.8	$-1^m 25^s$	$-22'.1$		38	44	10.3	9.5	$-1^m 8^s$	$-16'.2$	Duplex.
2	7	7.9	7.8	+0 6	+24.2		39	45	10.4		+0 10	+ 0.3	Ch. 11^M_5 .
3	7	7.9	7.8	+1 37	+ 2.7		40	46	10.5		-0 52	+ 9.9	
4	11	8.1	8.2	+0 49	- 5.1		41	46	10.5		-0 20	- 9.4	
5	13	8.3	9.0	+0 36	+21.8		42	47	10.5		+0 38	- 3.9	*
6	14	8.4	8.9	-0 16	+21.0		43	48	10.6		+0 20	+ 7.2	
7	17	8.5	8.8	-0 41	+ 6.6		44	51	10.8	9.5	+1 21	-29.0	
8	20	8.7	9.0	-1 31	- 2.5		45	51	10.8		-0 20	+14.1	
9	20	8.7	9.2	+0 33	+23.3		46	51	10.8		+0 56	+ 8.7	
10	22	8.8	9.0	-0 11	-23.0		47	52	10.9		-0 9	+ 5.4	
11	23	8.9	9.0	-0 18	- 6.7		48	54	11.0		+0 40	- 9.6	
12	26	9.1	9.8	+1 15	+24.5		49	56	11.1		+0 41	+13.5	
13	27	9.2	9.1	+0 25	-29.9		50	56	11.1		-0 45	+12.6	
14	28	9.3	9.1	+0 4	-22.0		51	56	11.1		-0 46	-10.8	
15	29	9.3	9.1	-0 12	-15.1		52	56	11.1		-0 14	+ 5.1	
16	30	9.4	9.2	-0 5	+ 8.1		53	57	11.2		-0 37	-11.4	Duplex.
17	30	9.4	9.3	+0 51	- 9.3		54	58	11.2		-0 49	+ 7.2	
18	30	9.4	9.3	+0 11	+20.6		55	58	11.2		-0 48	+ 0.6	
19	31	9.5	9.3	+1 17	+ 3.6		56	58	11.2		+0 53	+ 3.3	
20	33	9.6	10	+0 31	+25.1		57	58	11.2		-0 21	+ 8.1	
21	33	9.6	9.6	+1 26	+21.2		58	58	11.2		-0 37	-14.4	
22	34	9.6	9.5	-1 58	- 3.0		59	61	11.4		+0 9	-12.1	Duplex.
23	34	9.6	9.2	-0 31	-27.2		60	61	11.4		-0 16	- 9.6	
24	34	9.7	9.8	+1 7	+ 4.3		61	61	11.4		-0 21	+11.1	
25	36	9.8	9.4	+1 29	-18.0		62	62	11.5		+0 10	- 2.4	
26	36	9.8	9.8	+1 59	+29.0		63	64	11.7		-0 37	- 1.5	
27	37	9.8	9.5	+1 27	-24.2		64	66	11.8		+0 4	+ 7.5	
28	37	9.8		-0 48	- 2.1		65	69	12.0		-0 12	- 3.9	
29	37	9.9		+1 31	-20.1		66	70	12.0		-0 30	- 0.6	
30	37	9.9		+0 16	+12.4		67	70	12.1		+0 21	- 4.5	
31	37	9.9	9.5	+0 51	- 1.9		68	71	12.1		+0 40	- 1.8	
32	38	9.9	9.3	-1 40	-29.9		69	71	12.1		+0 7	+ 4.8	
33	40	10.0	9.5	-1 6	+ 0.6		70	74	12.3		+0 39	- 1.2	
34	40	10.1		+0 40	- 3.6	*	71	74	12.3		+0 23	- 3.0	
35	41	10.1		+0 22	+ 3.7		72	74	12.3		-0 3	- 6.0	
36	41	10.1	9.5	+0 21	- 6.4		73	74	12.3		-0 27	- 0.9	
37	41	10.1	9.3	+1 59	-25.1	Duplex.	74	74	12.3		-0 28	- 2.7	

* $\frac{1}{2}(34+42) = \text{BD} - 17^\circ.5554$, 9^M_2 .

$$M = 9.3 + 0.066 (G - 28.6).$$